Author Index

A

Ache, B. W., 3979
Acheson, A., 2504
Aebischer, P., 3310
Aggarwal, S. K., 4427
Agid, Y., 4766
Agmon, A., 319
Aguayo, A. J., 1144
Aizenman, E., 970, 2362
Akey, I. V., 691
Albert, J., 2665
Alger, B. E., 4122
Allen, C. J., 4854
Allore, R. J., 4337
Al-Shamma, H. A., 2881
Alsterberg, G., 924
Alvarez, F. J., 2901
Amaral, D. G., 1936, 2582
Ambesi, A., 4898
Ambron, R. T., 2813
Ames, A., III, 840, 4234
Amin, S., 56
Anderson, D. H., 3968
Anderson, J. H., 4489
Angst, C., 306
Anton, F., 86
Aoki, C., 781
Aou, S., 549, 560
Apicella, P., 4595
Appel, S. H., 3392
Araujo, D. M., 1668
Armstrong, R. C., 1538
Arnold, A. P., 4447
Aronin, N., 3435
Arriza, J. L., 4045
Arvidsson, U., 718
Asano, T., 1275
Ashe, J. H., 4701
Assad, J. A., 3291
Aston-Jones, G., 3162
Astrow, S. H., 1602
Avoli, M., 104

B

Bachvarova, R. F., 4663
Back, S. A., 4023
Bae, C. S., 4088
Bagully, S. H., 390
Bailly, Y., 4712
Baird, A., 3828
Baird, D. H., 619
Banerjee, S. A., 4460
Bank, M., 2960
Banks, M. I., 2819
Baraban, J. M., 4834
Barish, M. E., 2235
Barker, J. L., 2888
Barker, P., 2504
Bartlett, P. F., 3427
Bartsch, S., 736
Bartsch, U., 736
Basi, G. S., 691
Batra, R., 3200
Batson, D., 4264
Battey, J. F., 1101
Bean, B. P., 4358
Bearer, E. L., 750
Beavo, J., 915
Beck, K. D., 4391
Becker, L. E., 4337
Becker, M., 3849
Beitner-Johnson, D., 2165
Beitz, A. J., 4489
Bell, G. I., 3920
Benes, F. M., 924
Benjamin, P. R., 1033
Bennett-Clarke, C. A., 62
Benowitz, L. I., 3999
Benzer, S., 2735
Berardi, N., 4651
Berendse, H. W., 2079
Bernard, V., 3591
Bernardi, G., 4224
Bersani, M., 946
Besmer, P., 4663
Betz, W. J., 363
Bewick, G. S., 363
Beyreuther, K., 4143
Bienenstock, E., 1280
Bird, E. D., 924
Birder L. A., 4878
Birnberg, N. C., 2007
Birt, D., 549, 560
Bjornson, R., 3862
Blasdel, G. G., 3115, 3139
Blatter, L. A., 4834
Blaustein, M. P., 4898
Bloch, B., 3591
Bloch, R. J., 4898
Blum, M., 1688
Blumenthal, E. M., 290
Blusztajn, J. K., 793
Bolz, J., 3054
Bondy, C. A., 4737
Bordi, F., 2493
Borghese, N. A., 1750
Borisy, F. F., 915
Bornstein, J. C., 1502
Bothwell, M., 930
Boudier, J.-L., 454
Bradley, D. J., 2288
Bray, G. M., 1144
Breder, C. D., 3920
Breedlove, S. M., 4133
Bright, K., 1033
Brilliant, M., 4460
Britten, K. H., 2331, 4745
Brodie, J. D., 3773
Brodin, L., 3361, 3789
Broman, J., 204
Brouard, A., 1409
Brown, E. E., 4112
Brown, I. R., 4337
Bryant, K., 376
Budnik, V., 644
Bunge, R. P., 3310
Bunney, B. S., 2433
Buonanno, A., 1010
Burden, S. M., 818
Bürglin, T. R., 2356
Burke, J. F., 1033
Burke, R. E., 2403
Burmeister, D. W., 4800
Burne, J. F., 4816
Burnod, Y., 1435
Burrows, M., 1477
Burton, L. E., 4391
Butcher, S. P., 21
Butler, L. S., 2973
Byrne, J. H., 2633

C

Cadet, J. L., 1658
Calabrese, R. L., 525
Calabresi, P., 4224
Caldwell, J. H., 1370
Callaway, E. M., 570
Cameron, H. A., 3642
Caminiti, R., 1435
Campbell, G., 1847
Campeau, S., 2303, 2313, 4624
Canady, K. S., 1001
Carlen, P. L., 4510
Carlson, E., 1658
Carmichael, S. T., 3628
Caron, M. G., 4045
Caroni, P., 3849
Carrozzo, M., 1750
Carter, D. B., 1101
Cash, S., 2051
Castellucci, V. F., 3838
Castrén, E., 4793
Catsicas, M., 4642
Catterall, W. A., 2259
Caudle, R. M., 132
Cavazos, J., 4173
Chalazonitis, A., 583
Charlton, M. P., 297
Charnas, L. R., 3010
Chavkin, C., 132
Chen, H.-S. V., 4427
Chen, J. Y. C., 3071
Chen, K., 4437
Cheng, B., 376, 1558
Chiaia, N. L., 62
Chiba, A., 2051
Chikaraishi, D. M., 4460
Chiu, C., 1640
Choi, J. C., 1169
Chong, M. S., 3999
Christensen, B. N., 2156
Chuang, D.-M., 1077
Clapoff, S., 4337
Clark, B., 664
Clarke, P. G. H., 4642
Clementi, F., 3372
Clower, R. P., 2582
Coderre, T. J., 3665, 3671
Cohen, M. W., 2982
Cohen, T. E., 1616
Colino, A., 180
Collins, A. C., 2765
Collins, P. V., 3098
Colmers, W. F., 1086
Compaan, J. C., 4808
Connor, C. E., 3414
Connor, J. A., 3601
Connors, B. W., 319
Cooper, E., 4611
Cope, T. C., 338
Cordier, J., 1363
Corey, D. P., 3291
Cornell-Bell, A. H., 2648
Cotman, C. W., 345, 1668
Coughlin, M., 1454, 1467
Coulombe, M., 142
Courtois, Y., 2022
Covault, J., 4677
Cowey, A., 4056, 4545
Cox, C. L., 4701
Cox, D. H., 906
Coyle, J. T., 4298
Crawford, G. D., Jr., 3392
Crawley, J. N., 3380
Crissman, R. S., 62
Croll, R. P., 1709
Crook, J. M., 1816
Cullheim, S., 718, 3789
Cunningham, A. M., 915
Cunningham, E. T., Jr., 1101
Czepita, D., 2672
Czernik, A. J., 1736, 3071

D

Dagan, D., 1964
Dahlstrand, J., 3361
Dallos, P., 4575
Dan, Y., 1253
Dana, C., 1409
Daniels, D. C., 3642
Da Prada, M., 1977
Dascal, N., 3743
David, J.-C., 3729
Davidson, N., 268
Davis, D., 376
Davis, L., 4867
Davis, M., 854, 2303, 2313, 462
Davis, S., 21
Daw, N., 2672
Dawson, T. M., 4045
Day, J. W., 4540
Deal, C. R., 2838
DeBin, J., 2948
de Boer, M., 4808
De Camilli, P., 489, 1736
De Carlos, J. A., 1194
deCurtis, M., 1867
Deerinck, T. J., 3956
de Groat, W. C., 4878
Delhaye-Bouchaud, N., 4712
Delumeau, J. C., 1363
Dement, W. C., 1640
Deneris, E. S., 2765, 4611
de Rijk, E. P. C. T., 864
Desimone, R., 3568
De Souza, E. B., 1101
DeVries, G. J., 2881
Dewey, S. L., 3773
DeWit, M., 4867
DeWitte, P., 2623
Dhallan, R. S., 3248
Diamond, J. 1454, 1467
Dichter, M. A., 3042
Dieperink, M. E., 2177
DiFiglia, D., 3435
Dingledine, R., 4080
Dirks, R. W., 1709
Dobner, P. R., 652
Doering, L. C., 3399
Domenici, L., 4651
Dörfl, J., 153
Dorn, H. H., 1538
Dörries, U., 736
Dorsa, D. M., 652, 2881
Dou, P., 4867
Dougherty, P. M., 883, 3025
Drake, S. L., 2597
Drevets, W. C., 3628
Drewe, J. A., 538
Drinkwater, C. C., 306
Drolet, G., 3162

Author Index

A

Ache, B. W., 3979
Acheson, A., 2504
Aebischer, P., 3310
Aggarwal, S. K., 4427
Agid, Y., 4766
Agmon, A., 319
Aguayo, A. J., 1144
Aizenman, E., 970, 2362
Akey, I. V., 691
Albert, J., 2665
Alger, B. E., 4122
Allen, C. J., 4854
Allore, R. J., 4337
Al-Shamma, H. A., 2881
Alsterberg, G., 924
Alvarez, F. J., 2901
Amaral, D. G., 1936, 2582
Ambesi, A., 4898
Ambron, R. T., 2813
Ames, A., III, 840, 4234
Amin, S., 56
Anderson, D. H., 3968
Anderson, J. H., 4489
Angst, C., 306
Anton, F., 86
Aoki, C., 781
Aou, S., 549, 560
Apicella, P., 4595
Appel, S. H., 3392
Araujo, D. M., 1668
Armstrong, R. C., 1538
Arnold, A. P., 4447
Aronin, N., 3435
Arriza, J. L., 4045
Arvidsson, U., 718
Asano, T., 1275
Ashe, J. H., 4701
Assad, J. A., 3291
Aston-Jones, G., 3162
Astrow, S. H., 1602
Avoli, M., 104

B

Bachvarova, R. F., 4663
Back, S. A., 4023
Bae, C. S., 4088
Bagully, S. H., 390
Bailly, Y., 4712
Baird, A., 3828
Baird, D. H., 619
Banerjee, S. A., 4460
Bank, M., 2960
Banks, M. I., 2819
Baraban, J. M., 4834
Barish, M. E., 2235
Barker, J. L., 2888
Barker, P., 2504
Bartlett, P. F., 3427
Bartsch, S., 736
Bartsch, U., 736
Basi, G. S., 691
Batra, R., 3200
Batson, D., 4264
Battey, J. F., 1101
Bean, B. P., 4358
Bearer, E. L., 750
Beavo, J., 915
Beck, K. D., 4391
Becker, L. E., 4337
Becker, M., 3849
Beitner-Johnson, D., 2165
Beitz, A. J., 4489
Bell, G. I., 3920
Benes, F. M., 924
Benjamin, P. R., 1033
Bennett-Clarke, C. A., 62
Benowitz, L. I., 3999
Benzer, S., 2735
Berardi, N., 4651
Berendse, H. W., 2079
Bernard, V., 3591
Bernardi, G., 4224
Bersani, M., 946
Besmer, P., 4663
Betz, W. J., 363
Bewick, G. S., 363
Beyreuther, K., 4143
Bienenstock, E., 1280
Bird, E. D., 924
Birder L. A., 4878
Birnberg, N. C., 2007
Birt, D., 549, 560
Bjornson, R., 3862
Blasdel, G. G., 3115, 3139
Blatter, L. A., 4834
Blaustein, M. P., 4898
Bloch, B., 3591
Bloch, R. J., 4898
Blum, M., 1688
Blumenthal, E. M., 290
Blusztajn, J. K., 793
Bolz, J., 3054
Bondy, C. A., 4737
Bordi, F., 2493
Borghese, N. A., 1750
Borisy, F. F., 915
Bornstein, J. C., 1502
Bothwell, M., 930
Boudier, J.-L., 454
Bradley, D. J., 2288
Bray, G. M., 1144
Breder, C. D., 3920
Breedlove, S. M., 4133
Bright, K., 1033
Brilliant, M., 4460
Britten, K. H., 2331, 4745
Brodie, J. D., 3773
Brodin, L., 3361, 3789
Broman, J., 204
Brouard, A., 1409
Brown, E. E., 4112
Brown, I. R., 4337
Bryant, K., 376
Budnik, V., 644
Bunge, R. P., 3310
Bunney, B. S., 2433
Buonanno, A., 1010
Burden, S. M., 818
Bürglin, T. R., 2356
Burke, J. F., 1033
Burke, R. E., 2403
Burmeister, D. W., 4800
Burne, J. F., 4816
Burnod, Y., 1435
Burrows, M., 1477
Burton, L. E., 4391
Butcher, S. P., 21
Butler, L. S., 2973
Byrne, J. H., 2633

C

Cadet, J. L., 1658
Calabrese, R. L., 525
Calabresi, P., 4224
Caldwell, J. H., 1370
Callaway, E. M., 570
Cameron, H. A., 3642
Caminiti, R., 1435
Campbell, G., 1847
Campeau, S., 2303, 2313, 4624
Canady, K. S., 1001
Carlen, P. L., 4510
Carlson, E., 1658
Carmichael, S. T., 3628
Caron, M. G., 4045
Caroni, P., 3849
Carrozzo, M., 1750
Carter, D. B., 1101
Cash, S., 2051
Castellucci, V. F., 3838
Castrén, E., 4793
Catsicas, M., 4642
Catterall, W. A., 2259
Caudle, R. M., 132
Cavazos, J., 4173
Chalazonitis, A., 583
Charlton, M. P., 297
Charnas, L. R., 3010
Chavkin, C., 132
Chen, H.-S. V., 4427
Chen, J. Y. C., 3071
Chen, K., 4437
Cheng, B., 376, 1558
Chiaia, N. L., 62
Chiba, A., 2051
Chikaraishi, D. M., 4460
Chiu, C., 1640
Choi, J. C., 1169
Chong, M. S., 3999
Christensen, B. N., 2156
Chuang, D.-M., 1077
Clapoff, S., 4337
Clark, B., 664
Clarke, P. G. H., 4642
Clementi, F., 3372
Clower, R. P., 2582
Coderre, T. J., 3665, 3671
Cohen, M. W., 2982
Cohen, T. E., 1616
Colino, A., 180
Collins, A. C., 2765
Collins, P. V., 3098
Colmers, W. F., 1086
Compaan, J. C., 4808
Connor, C. E., 3414
Connor, J. A., 3601
Connors, B. W., 319
Cooper, E., 4611
Cope, T. C., 338
Cordier, J., 1363
Corey, D. P., 3291
Cornell-Bell, A. H., 2648
Cotman, C. W., 345, 1668
Coughlin, M., 1454, 1467
Coulombe, M., 142
Courtois, Y., 2022
Covault, J., 4677
Cowey, A., 4056, 4545
Cox, C. L., 4701
Cox, D. H., 906
Coyle, J. T., 4298
Crawford, G. D., Jr., 3392
Crawley, J. N., 3380
Crissman, R. S., 62
Croll, R. P., 1709
Crook, J. M., 1816
Cullheim, S., 718, 3789
Cunningham, A. M., 915
Cunningham, E. T., Jr., 1101
Czepita, D., 2672
Czernik, A. J., 1736, 3071

D

Dagan, D., 1964
Dahlstrand, J., 3361
Dallos, P., 4575
Dan, Y., 1253
Dana, C., 1409
Daniels, D. C., 3642
Da Prada, M., 1977
Dascal, N., 3743
David, J.-C., 3729
Davidson, N., 268
Davis, D., 376
Davis, L., 4867
Davis, M., 854, 2303, 2313, 462
Davis, S., 21
Daw, N., 2672
Dawson, T. M., 4045
Day, J. W., 4540
Deal, C. R., 2838
DeBin, J., 2948
de Boer, M., 4808
De Camilli, P., 489, 1736
De Carlos, J. A., 1194
deCurtis, M., 1867
Deerinck, T. J., 3956
de Groat, W. C., 4878
Delhaye-Bouchaud, N., 4712
Delumeau, J. C., 1363
Dement, W. C., 1640
Deneris, E. S., 2765, 4611
de Rijk, E. P. C. T., 864
Desimone, R., 3568
De Souza, E. B., 1101
DeVries, G. J., 2881
Dewey, S. L., 3773
DeWit, M., 4867
DeWitte, P., 2623
Dhallan, R. S., 3248
Diamond, J. 1454, 1467
Dichter, M. A., 3042
Dieperink, M. E., 2177
DiFiglia, D., 3435
Dingledine, R., 4080
Dirks, R. W., 1709
Dobner, P. R., 652
Doering, L. C., 3399
Domenici, L., 4651
Dörfl, J., 153
Dorn, H. H., 1538
Dörries, U., 736
Dorsa, D. M., 652, 2881
Dou, P., 4867
Dougherty, P. M., 883, 3025
Drake, S. L., 2597
Drevets, W. C., 3628
Drewe, J. A., 538
Drinkwater, C. C., 306
Drolet, G., 3162

Dubois-Dalcq, M. E., 1538
Duffy, S., 1781
Duncan, M. W., 1523
Dunlap, K., 906
Dunn, R. J., 4337
Dunnett, S. B., 4281
Dunwiddie, T. V., 506, 3753
Dürsteler, M. R., 1416

E

Easter, S. S., Jr., 467, 2381
Ebling, F. J. P., 2516
Eck, M., 62
Eckenrode, T. C., 3272, 3282
Eckenstein, F. P., 142, 4688
Eckermann, C. E., 3676
Eddy, R. L., 3248
Egan, T. M., 1964
Eipper, B. A., 222
Ekblom, P., 736
El-Etr, M., 1363
Ellisman, M. H., 3956
Elmslie, G. J., 818
Elroy-Stein, O., 268
Emson, P., 3999
Engisch, K. L., 1115
Epstein, C. J., 1658
Erickson, P. A., 3968
Ernfors, P., 4011
Erzurumlu, R. S., 3946
Esterle, T. M., 4775
Etgen, A. M., 3869
Eubanks, J. H., 2555
Evans, G. A., 2555
Ewer, J., 3321
Eysel, U. T., 1816

F

Faden, A. I., 425
Fahn, S., 1658
Fahringer, H. M., 1640
Faissner, A., 736
Faivre-Sarrailh, C., 257
Faktorovich, E. G., 3554
Falls, W. A., 854, 2303, 2313, 4624
Feiler, R., 3862
Ferraina, S., 1435
Ferrieri, R. A., 3773
Ferris, C. D., 1567
Ferster, D., 1262
Fibiger, H. C., 4112
Fickbohm, D. J., 1726
Fidel, S. A., 1679
Fields, H. L., 4023
Finkbeiner, S. M., 2648
Fischbach, G. D., 1115
Fisher, S. K., 3968
Fitzpatrick, D., 1319
Flamm, R. E., 2007
Flitcroft, D. I., 188
Foerster, A., 1467
Fok-Seang, J., 2751
Foran, D. R., 4890
Forte, M. A., 705
Fortune, E. S., 4309
Fowler, J. S., 3773
Fox, A. P., 1789
Fox, K., 1826, 2672
Frackowiak, R. S. J., 2542
Francke, U., 3535
Franklin, J. L., 1726
Fraser, D. D., 1781
Frautschy, S. A., 3828
Frech, G., 538
Freeman, R. D., 4721
Frégnac, Y., 1280, 1301
Friberg, K., 3361
Friedman, E., 1538
Friend, W. C., 4337
Frisch, B., 3321
Friston, K. J., 2542
Frosch, M. P., 3042
Fuchs, P. A., 800
Fuhrmann, D. S., 962
Fuller, F., 2726
Fulton, B. P., 4816
Furcht, L. T., 2034, 2597
Furness, J. B., 1502
Furukawa, Y., 989

G

Gadotti, A., 4056
Gage, F. H., 2849
Gainer, H., 3010
Galli-Resta, L., 4586
Gallo, V., 1010
Gallop, P. M., 2362
Garyantes, T. K., 96
Génis-Gálvez, J. M., 3781
Gennarini, G., 257
Geraerts, W. P. M., 1709
Gershon, E., 3743
Gershon, M. D., 235
Ghilardi, J. R., 4854
Ghosh, A., 39
Giaschi, D., 2198
Gilbert, M. R., 1763
Girault, J.-A., 3071
Giuili, G., 3350
Glaum, S. R., 2251
Glenn, S. L., 3688
Glowinski, J., 1363
Godfrey, E. W., 2982
Golarai, G., 4173
Goldberg, D. J., 4800
Goldman, J. E., 330
Goldman, S. A., 2532
Golowasch, J., 810, 2706
Gómez-Pinilla, F., 345
Gonzalez, A.-M., 3828
Goodman, C. S., 895
Goodrum, J. F., 3676
Gordon, A., 4540
Goridis, C., 257
Gorukanti, N., 3494
Gottmann, K., 4347
Gould, E., 3642
Grafton, S. T., 2542
Granata, A. R., 1
Grandguillaume, P., 1435
Gratton, A., 3609
Graybiel, A. M., 674, 2609, 3729, 4281, 4468
Greene, R. W., 4188
Greengard, P., 1736, 3071
Grenda, R., 2918
Griffin, J. W., 1763
Griffiths, I. R., 3676
Grimsby, J., 4437
Grinnell, A. D., 4447
Groenewegen, H. J., 2079
Grondin J., 4011
Gross, S. D., 2765
Gruol, D. L., 2838
Guellaen, G., 3350
Guénard, V., 3310
Guérin, C. J., 3968
Guitart, X., 2165
Gurney, M. E., 3241
Gustafsson, B., 3226

H

Haberly, L. B., 2211
Hahn, C.-g., 4677
Hall, J. C., 390, 2735, 3321
Hallonet, M. E. R., 1548
Hamblen-Coyle, M. J., 3321
Hamilton, K. A., 1772
Hampson, E. C. G. M., 4911
Handwerker, H. O., 86
Hanoune, J., 3350
Hanse, E., 3226
Harding, B. L., 1763
Harris, K. H., 3582
Harris, K. M., 2685
Hartikka, J., 4793
Hartnett, K. A., 2362
Hastings, M. H., 2516
Hatt, H., 2523
Hatten, M. E., 619
Haugen, P. K., 2034, 2597
Haun, F., 3272, 3282
Hauw, J.-J., 4766
Hawkins, R. D., 1616
Hawley, R. J., 2573
Hayaishi, O., 2715
Hayes, W. P., 1010
Hayflick, J. S., 705
Hefti, F., 4391
Heginbotham, L. R., 506
Heher, E. C., 840
Heinemann, S., 4611
Heinemann, S. F., 2555, 2765, 4080
Heinrikson, R. L., 2177
Hemmick, L. M., 2007
Hendry, I. A., 3427
Henion, P. D., 3818
Herbert, J., 2516
Hermans-Borgmeyer, I., 2765
Herrup, K., 4712
Hess, D. T., 4634
Hess, E. J., 2865
Heywood, C. A., 4056
Hicks, D., 2022
Hildebrand, J. G., 2523
Hilton, D. J., 3427
Hinton, D., 2735
Hirokawa, N., 2186
Hirsch, E. C., 4766
Hitchcock, J. M., 4624
Hlavin, M. L., 818
Ho, B. Y., 268
Hoffman, P. N., 1763
Hökfelt, T., 718, 3361, 4011
Holmes, M., 1454, 1467
Holst, J. J., 946
Hong, X. H., 2198
Hoppe, P., 4460
Horgan, K., 1135
Hospod, F. E., 2015
Houk, J. C., 3187
Huang, B., 4243
Huang, C.-C., 2813
Huang, E. J., 4663
Huang, S., 1351
Huang, X., 2417
Huang, Y.-Y., 180
Huerta, M. F., 3445, 3456
Huguenard, J. R., 3804
Humby, T., 2516
Hume, R. I., 4080
Huntley, G. W., 4088
Hylden, J. L. K., 1716
Hyson, R. L., 1698

I

Ideura, Y., 408
Ikeda, K., 1628
Imagawa, T., 1094
Inaishi, Y., 518
Inuzuka, H., 3525
Irwin, N., 3999
Ivkovich, D., 4403

J

Jackson, D. A., 793
Jackson-Lewis, V., 1658
Jacobs, B. L., 4037
Jacque, C., 3098
Jagadeesh, B., 1262
Jahr, C. E., 635
James, C. L., 2875
Jane, D. E., 595
Javedan, S., 4737
Javoy-Agid, F., 4766
Jenkins, W. M., 2918
Jensen, F. E., 2685, 4427
Jester, J. M., 607
Jhamandas, J. H., 3582
Jhaveri, S., 3946
Jiang, Z. G., 356
Jiménez, C. R., 1709
Jinnah, H. A., 2865
Johansson, R. S., 827
Johnson, K. O., 827, 3414
Johnson, P. B., 1435
Johnson, S. W., 483, 2000
Joho, R. H., 538
Jones, E. G., 4088
Jones, K. R., 390
Jordan, C. L., 4447
Jover, E., 454
Judge, S. J., 188
Juilfs, D., 915

K

Kaas, J. H., 3445, 3456
Kaczmarek, L. K., 290, 2007
Kaethner, R. J., 3257
Kaji, S., 408
Kalivas, P. W., 2623
Kamermans, M., 2451
Kandel, E. R., 989, 1616
Kapfhammer, J. P., 2112
Karkanias, G. B., 3869
Karwoski, C. J., 4243
Kashihara, Y., 518
Kater, S. B., 3175, 4867
Kato, K., 1275
Katz, L. C., 570
Kauer, J. S., 1772
Kaufman, G. D., 4489
Kavookjian, A. M., 2901
Kawaja, M. D., 2849
Kebabian, J. W., 3071
Keifer, J., 3187
Keller, C. H., 4381
Kellett, E., 1033
Kelly, J. B., 3084, 3688, 4530
Kelly, M. J., 2745
Keshishian, H., 2051
Kessler, J. A., 583
Kettler, R., 1977

Kiang, J. G., 1077
Kimble, C. Rising, 840
King, P. T., 3773
Kirchgessner, A. L., 235
Kirschfeld, K., 3862
Kitai, S. T., 1
Kitamoto, T., 1628
Kleitman, N., 3310
Klingberg, D. K., 1917
Klitenick, M. A., 2623
Knudsen, E. I., 3473, 3485
Knüsel, B., 4391
Koester, S. E., 1382
Kolb, B., 2321
Komatsu, H., 408, 2478
Kombian, S. B., 1086
Koob, G. F., 4372
Kopin, I. J., 1523
Korn, H., 116
Kössl, M., 1575, 1587
Kostic, V., 1658
Kouyama, N., 1233
Koyama, Y., 2715
Kozak, C. A., 2865
Kozlowski, M. R., 1679
Kritzer, M. F., 4545
Krukoff, T. L., 3582
Krzemien, D. M., 1370
Kubie, J. L., 1945
Kufta, C. V., 1538
Kulkarni, S. J., 390
Kuno, M., 518
Kupper, J., 1964
Kuwada, S., 3200
Kuzis, K., 4688
Kwon, Y., 3241
Kwon, Y. H., 3651
Kyriakides, E., 3676

L

Labarca, C., 268
Lacquaniti, F., 1750
Lafer, E. M., 2130, 2144
LaMantia, A.-S., 976
Landgraf, R., 1024
Landis, S. C., 3717, 3818
Landry, C., 4337
Larhammar, D., 3361
Larsen, P. J., 946
Larson, A. A., 4905
Laurent, G., 2370
Laurie, D. J., 1040, 1063, 4151
LaVail, M. M., 3554
Lavond, D. G., 4403
Lazar, L. M., 1688
Le, W.-D., 171, 3392
Le Douarin, N. M., 1548
LeDoux, J. E., 2493, 4501
Lee, H. J., 793
Lee, J. W.-K, 345
Lee, V. M.-Y., 1802
Lee, W.-H., 4737
Lefkowitz, R. J., 4045
Le Gal La Salle, G., 872
Lehéricy, S., 4766
Lehky, S. R., 3568
Lei, S. Z., 4427
Leitner, M., 56
Lemmon, V., 818
Lerea, L. S., 2973
Lester, H. A., 268
Lester, R. A. J., 635
Letourneau, P. C., 2034, 2597
Le Treut, T., 454
Levine, E. S., 4037
Levitan, I. B., 1964
Levitt, J. B., 2785
Levy, S., 2120
Lewin, G. R., 1896
Lewis, G. P., 3968
Lhiaubet, A.-M., 1409
Li, C., 2356
Li, H., 2393
Li, L., 4530
Li, Y.-Y., 840, 4234
Liang, K. C., 2303, 2313
Lieberburg, I., 376
Light, A. R., 2901
Lin, W.-W, 1077
Linden, D. J., 3601
Lindenmayer, G. E., 4898
Lindholm, D., 4793
Lindsay, R. M., 306
Linial, M., 3535
Linn, C. P., 2156
Lippe, W. R., 962
Lipton, S. A., 3042, 4427
Liu, D. W. C., 1859
Liu, F.-C., 674, 4281
Liu, X., 2735
Liuzzi, F. J., 4783
Ljungberg, T., 4595
Llinás, R., 1867
Lloyd, P. E., 3545
Lockery, S. R., 2268, 3877
Logan, A., 3828
Logan, C. G., 4403
Logan, J., 3773
Lohman, A. H. M., 2079
Lohof, A. M., 1253
Lolait, S. J., 2888
Loose, M. D., 2745
López, R., 3781
Lorang, M. T., 4372
Lotan, I., 3743
Lowenstein, D. H., 3004, 4846
Lufkin, R., 1640
Luiten, P. G. M., 4808
Lund, J. S., 2785
Lupica, C. R., 3753
Luther, P. W., 4898
Lux, H. D., 4347
Lytton, W. W., 607

M

MacGregor, R. R., 3773
Macke, J. P., 3248
MacVicar, B. A., 1781
Maffei, L., 4651
Magistretti, P. J., 4923
Magnoni, G., 2177
Mahan, L. C., 2888
Maj, R., 4224
Malenka, R. C., 180
Mandell, J. W., 1736
Mandelzys, A., 4611
Manly, S. P., 1679
Manova, K., 4663
Mantyh, P. W., 4854
Mao, F., 363
Marchaterre, M., 35
Marder, E., 810, 2706, 2803
Margoliash, D., 4309
Mariani, J., 4712
Marin, P., 1363
Marini, A. M., 1523
Markey, S. P., 1523
Marks, A., 4337
Marks, M. J., 2765
Marks, W. B., 2403
Marshak, D. W., 1233
Martin, D., 1928
Martin, G., 1511
Martin, L. J., 4045
Martin, T. P., 3773
Masland, R. H., 1394
Mason, C. A., 619
Mason, P., 4023
Masters, C. L., 4143
Mathew, T. C., 2504
Matsuoka, I., 3350
Matthes, M. T., 3554
Mattson, M. P., 376, 1558
Maunsell, J. H. R., 4521
Mayer, M. L., 595
Maywood, E. S., 2516
Mazziotta, J. C., 2542
McAllister, L., 895
McCarley, R. W., 4188
McCarthy, J. B., 2034, 2597
McCarthy, R. T., 2225
McCormick, D. A., 278
McEwen, B. S., 2549, 3642
McGuire, B., 4663
McIntosh, T. K., 4846
McKee, R. D., 3765
McKenna, N. M., 1370
McManaman, J. L., 171
McNamara, J. O., 1928, 2555, 2973
McPherson, J. D., 2555
McVey, D. C., 4854
Mead, S., 2516
Medina, J. I., 3781
Melia, K. R., 2303, 2313
Meller, E., 3773
Melzack, R., 3665, 3671
Melzer, P., 153
Menaker, M., 3619
Mendell, L. M., 1896
Mengod, G., 440
Merchant, K. M., 652
Mercuri, N. B., 2000, 4224
Merlio, J.-P., 4011
Merzenich, M. M., 2918
Meshul, C. K., 142
Metcalf, A., 489
Metherate, R., 4701
Meyrand, P., 2803
Michaelson, S., 4143
Michel, W. C., 3979
Mignery, G. A., 489
Mignot, E., 1640
Mikkelsen, J. D., 946
Mikoshiba, K., 4253
Miller, F. D., 2504
Miller, K. R., 773
Miller, M. A., 2881
Miller, R. H., 2751, 3107
Miller, R. J., 2251
Miserendino, M. J. D., 854, 2303, 2313, 4624
Mismer, D., 3862
Mitchell, J. B., 3609
Mizukami, A., 729
Mobbs, P., 664
Mochly-Rosen, D., 4540
Mogdans, J., 3473, 3485
Moir, R., 4143
Moises, H. C., 4066
Møller, M., 946
Monaco, J., 4264
Monard, D., 4143
Montagne-Clavel, J., 1511
Monyer, H., 1040
Moody, S. A., 1351
Mooney, R., 2464
Mooney, R. D., 2417
Moore, R. Y., 2015
Moratalla, R., 2609
Moreli, P., 3676
Morley, J. W., 188
Morris, R. G. M., 21
Morrison, R. S., 583
Morrissey, T. K., 3310
Morshead, C. M., 249
Morton, M. E., 1839
Morton, T. L., 3582
Moss, B., 268
Moss, R. L., 3217
Movshon, J. A., 4745
Mulkey, R. M., 4327
Muller, R. U., 1945
Muly, E. C., 1319
Murasugi, C. M., 2331
Murphy, M., 3427
Murphy, R. A., 2504
Murphy, T. H., 4834
Murray, M., 3272, 3282
Murrow, B. W., 800

N

Nadler, J. V., 1928
Naini, A. B., 1658
Nakata, T., 2186
Narahashi, T., 2104
Nargeot, J., 268
Nathans, J., 3248
Nathanson, J. A., 3071
Nathanson, N. M., 1839
Nawa, H., 518
Nedivi, E., 691
Neff, S. R., 1772
Nestler, E. J., 2165, 2439
Neumann, I., 1024
Neve, R. L., 1679
Newman, G. C., 2015
Newsome, W. T., 2331, 4745
Nicol, G. D., 1917
Nicola, M.-A., 116
Nicola, N. A., 3427
Nicoll, R. A., 3466
Niedzwiecki, D., 2532
Nienhuis, R., 1640
Nikolics, K., 4391
Nishi, R., 142, 4688
Noebels, J. L., 2259
Noguchi, K., 1716, 2563
Normand, E., 3591
North, R. A., 356, 483, 2000
Novak, N., 3054
Nudo, R. J., 2918
Nurcombe, V., 4143
Nusbaum, M. P., 2706

O

O'Carroll, A.-M., 2888
Ogura, A., 1094
O'Hanlon, D., 4337
Ohzawa I., 4721
O'Leary, D. D. M., 1194, 1212, 1382
Olivéras, J.-L., 1511
O'Malley, D. M., 1394
O'Neill, A., 2177
Ono, K., 2715

Onoe, H., 2715
Opdyke, C. A., 525
Oppenheim, R. W., 2726
Ottersen, O. P., 204, 3789
Otto, I., 1435
Overholt, E. M., 1698
Owicki, J. C., 773
Özçelik, T., 3535

P

Page, C., 1802
Palacios, J. M., 440
Palecek, J., 3025
Paleckova, V., 3025
Pallas, S. L., 3651
Paré, D., 1867
Pareek, S., 2504
Parisi, V., 4651
Parma, J., 3350
Parrett, T., 467
Parthasarathy, H. B., 4468
Pasquale, E. B., 3956
Passafaro, M., 3372
Pasternak, T., 4521
Patlak, C. S., 2015
Patneau, D. K., 595
Paul, M. L., 3729
Paulus, M. P., 4372
Pauly, J. R., 2765
Pawson, P. A., 4447
Payne, H. R., 818
Pelaprat, D., 1409
Pellegrini, J. W., 4427
Péquignot, Y., 4642
Perney, T. M., 2007
Perreault, P., 104
Persson, H., 4011
Peterhans, E., 1416
Peterson, A. C., 4890
Peterson, K., 3535
Petitti, N., 3869
Pfaffinger, P., 989
Pfenninger, K. H., 2393, 2948
Pfrieger F. W., 4347
Phelps, M. E., 2542
Phillips, J. R., 827
Pickel, V. M., 1335
Pieribone, V. A., 3361
Pieroni, J. P., 2633
Pisani, A., 4224
Pitanford, S., 4540
Pitler, T. A., 4122
Pizzorusso, T., 4651
Pleasure, S. J., 1802
Pomeroy, S. L., 976
Pompeiano, M., 440
Poo, M.-m., 77, 1253
Popov, S., 77
Poulter, M. O., 2888
Pourquié, O., 1548
Poyard, M., 3350
Prada, C., 3781
Prada, F. A., 3781
Prejean, T., 2918
Premont, J., 1363
Preskorn, S. H., 3628
Presty, S., 2542
Prevette, D., 2726
Price, D. L., 1763
Price, J. L., 3628
Prince, D. A., 3804
Proctor, W. R., 506, 3753
Pronovost, S. M., 4663
Przedborski, S., 1658
Przysiezniak, J., 2065
Purves, D., 976, 3509

Q

Quillan, M., 1253
Quinonero, J., 3098
Quirk, G. J., 1945
Quiroga, S., 2393

R

Rabacchi, S. A., 4712
Rabinovsky, E. D., 171
Raff, M. C., 4816
Raichle, M. E., 3628
Rajendran, G., 4264
Raley-Susman, K. M., 773
Ramírez, V., 718
Ranck, J. B., Jr., 1945
Randall, R. D., 1882
Ransom, B. R., 430
Rao, M. S., 3717
Rao, S. B., 153
Rapf, D., 2247
Rapp, P. R., 1936
Rausell, E., 4088
Rayport, S., 4264
Redies, C., 3525
Reed, R. R., 3248
Reeh, P. W., 86
Regan, D., 2198
Regehr, W. G., 96, 4202
Rehder, V., 3175
Rehm, E. J., 895
Rempel, N. L., 2582
Rendahl, K. G., 390
Resta, G., 4586
Reynolds, B. A., 4565
Reynolds, I. J., 970
Reynolds, M. L., 3999
Rhoades, R. W., 62, 2417
Richards, A., 3509
Richards, J. G., 1977
Richardson, P. M., 4011
Riddle, D., 3509
Riopelle, R. J., 4011
Ritter, A. M., 1896
Roberts, A., 1647
Robertson, G. S., 4112
Robertson, H. A., 2609, 3729
Robitaille, R., 297
Roche, K. F., 2034
Roder, J., 4337
Roe, A. W., 3651
Rogers, S. W., 4611
Romanski, L. M., 4501
Ronnekleiv, O. K., 2745
Ronnett, G. V., 915
Roper, S. D., 1127
Rosbash, M., 2735, 3321
Rosen, J. B., 4624
Rosenberg, M. B., 2849
Rosenberg, P. A., 56, 2362
Rosenthal, A., 4391
Rosoff, M. L., 2356
Ross, L. S., 467
Rostène, 1409
Roubos, E. W., 864
Rougon, G., 257, 872
Roy, J.-P., 2478
Roy, M. L., 2104
Rubel, E. W., 962, 1001, 1698
Ruberg, M., 4766
Rubin, G. M., 3862
Ruda, M. A., 1716, 2563
Rupp, F., 3535
Russell, I. J., 1575, 1587
Russell, J. A., 1024
Rutishauser, U., 3107
Rydel, R. E., 376

S

Sakaguchi, M., 518
Salpeter, M. M., 35
Salvaterra, P. M., 1628
Salzman, C. D., 2331
Sanchez, S., 4663
Sandell, J. H., 1394
Sanders-Bush, E., 4775
SanGiovanni, J. P., 924
Santos-Sacchi, J., 1906
Saper C. B., 3920
Sapolsky, R. M., 773
Sato, H., 2672
Saunders, S. E., 1033
Saura, J., 1977
Sawasdikosol, S., 4264
Scarnati, E., 4595
Schacher, S., 2960
Schachner, M., 736
Schafer, M. K.-H., 222
Schall, J. D., 4468
Schaller, K. L., 1370
Scheibe, R. J., 2573
Scheller, R., 3535
Schmied, R., 2813
Schneider, G. E., 2112
Schreibmayer, W., 3743
Schultz, W., 4595
Schwab, M. E., 2112
Schwartz, J. H., 1160
Schwob, J. E., 3896
Scott, S. A., 2993
Scroggs, R. S., 1789
Seeburg, P. H., 1040, 1063, 4151
Seino, S., 3920
Seitanidou, T., 116
Sejnowski, T. J., 607, 3568, 3877
Sekiguchi, T., 729
Sesack, S. R., 1335
Shadlen, M. N., 4745
Sharpe, J. A., 2198
Shatz, C. J., 39, 1847
Shepherd, G. M., 3985
Sher, E., 3372
Shi, W.-X., 2433, 4264
Shigekawa, M., 1094
Shih, J. C., 4437
Shinohara, H., 1275
Shooter, E. M., 306
Shows, T. B., 3248
Shulz, D., 1280, 1301
Shupliakov, O., 718, 3789
Siegel, J. M., 1640
Sillar, K. T., 1647
Simerly, R. B., 4045
Simon, D. K., 1212
Simon, T. W., 525
Simonetti, S., 1658
Singer, S. J., 3956
Sivaramakrishnan, A., 2370
Skene, J. H. P., 691, 4634
Slater, T. M., 4634
Sloviter, R. S., 3004
Small, D. H., 4143
Small, S. A., 1616
Smedman, M., 2813
Smeyne, M., 3601
Smit, A. B., 1709
Smith, D. H., 4846
Smith, D. P., 3862
Smith, G. S., 3773
Smith, P. H., 2819, 3700
Smith, R. G., 3392
Smith, T. K., 1502
Snider, W. D., 3494
Snodderly, D. M., 1169
Snyder, G. L., 3071
Snyder, S. H., 915, 1567, 4045
Socolich, M., 3862
Söderberg, C., 3361
Solís, J. M., 3466
Soliven, B., 2665
Somogyi, P., 4545
Sorg, O., 4923
Sorkin, L. S., 3025
Sossin, W. S., 1160
Sousa, R., 2130, 2144
Spanoyannis, A., 1679
Spencer, A. N., 2065
Spitzer, N. C., 2268
Squire, L. R., 2582, 3765
Staiger, V., 3054
Stanford, T. R., 3200
Stasky, A. A., 3896
Steen, K. H., 86
Stefani, E., 3392
Stefansson, K., 2177
Steinberg, R. H., 3554
Steinmetz, J. E., 4403
Stengel, D., 3350
Stengl, M., 2523
Stevens, D. R., 4188
Steward, O., 762
Stock, A., 4688
Stoffers, D. A., 222
Storm-Mathisen, J., 3789
Strada, O., 4766
Street, V. A., 1839
Strichartz, G. R., 2948
Stroessner-Johnson, H. M., 1936
Strong, J. A., 2993
Stuermer, C. A. O., 3257
Stukenbrok, H., 489
Stys, P. K., 430
Suard, I., 3098
Südhof, T. C., 489
Sulzer, D., 4264
Sun, S. C., 3601
Sun, X., 4905
Sun, Y., 3717
Sur, M., 3651
Suter, U., 306
Sutherland, R. J., 2321
Sutton, L. A., 1602
Sutula, T., 4173
Sutula, T. P., 2211
Suzuki, H., 729
Swartz, K. J., 4358
Sweet, M. A., 3935
Szaro, B. G., 3010
Szumowski, K. E. M., 3896
Szuts, E. Z., 1490

T

Takahashi, M., 1094
Takahashi, T. T., 4381
Takei, K., 489
Takeichi, M., 3525
Tamir, H., 235
Tank, D. W., 4202
Tannery, N. H., 2130, 2144

TanPiengco, P. E., 2225
Tasker, R. C., 4298
Taylor, M., 506
Tedeschi, B., 4783
Tence, M., 1363
Tetzlaff, W., 4565
Thayer, S. A., 1882
Thoenen, H., 4793
Thomas, G., 705
Thomas, M. J., 4846
Thompson, R. F., 4403
Thompson, W. J., 1602
Thomson, C. E., 3676
Thorpe, S., 1280
Tien, C.-L., 306
Toews, A. D., 3676
Toma, J. G., 2504
Torre, E. R., 762
Towle, H. C., 2288
Townes-Anderson, E., 1736
Tracey, D. E., 1101
Triller, A., 116
Trombley, P. Q., 2043, 3985, 3992
Troncoso, J. C., 1763
Trudeau, L.-E., 3838
Trugman, J. M., 2875
Tsao, B., 2685
Tse, F. W., 1781
Tsering, C., 3494
Twardzik, D. R., 583

U

Ulfhake, B., 718, 2403
Upson, L. M., 1010

V

Valin, A., 872
Van Bockstaele, E. J., 3162
van den Pol, A. N., 2648
van der Kooy, D., 249, 1135
Van der Loos, H., 153
Van der Zee, E. A., 4808
Vaney, D. I., 4911
van Strien, F. J. C., 864
Vasko, M. R., 1917
Vaysse, P. J.-J., 330
Velazquez, E., 4663
Venturini, A., 793
Verge, V. M. K., 4011
Verma, S., 538
Veselovsky, N. S., 4347
Vial, M., 1409
Videen, T. O., 3628
Vigna, S. R., 4854
Villarroya, H., 3098
Vincent, S. L., 924
Viñuela, A., 4088
Vogelbaum, M. A., 3619
Volkow, N. D., 3773
Volpe, P., 489
von der Heydt, R., 1416
Vornov, J. J., 4298
Vyas, D., 3187
Vyklicky, L., Jr., 1010

W

Wada, E., 1101
Wagner, J. A., 2573
Wagner, J. J., 132
Wainer, B. H., 793
Wall, J. T., 3445, 3456
Walrond, J. P., 1490
Warach, S., 4427
Washburn, M. S., 4066
Wasmuth, J. J., 2555
Watanabe, Y., 2715
Wathey, J. C., 607
Watkins, J. C., 595
Watson, S. J., 222
Watters, R., 1523
Waxman, S. G., 430
Webb, C. B., 338
Wehrhahn, C., 2247
Weigl, L., 3743
Weiler, R., 4911
Weimann, J. M., 2706, 2803
Weiner, J. L., 4510
Weinhaus, R. S., 1169
Weiss, F., 4372
Weiss, S., 4565
Welker, E., 153
Weller, A., 736
Werblin, F., 2451
Westbrook, G. L., 2043
Westenbroek, R. E., 2259
Westerfield, M., 1859
Wheeler, E. F., 930
Whim, M. D., 3545
White, F. A., 62
White, J., 1772
Widmer, H. R., 4391
Wier, W. G., 4834
Willard, A. L., 1726
Williams, T. E., 142
Willis, W. D., 883, 3025
Wilson, M. C., 2865, 4634
Winslow, J. W., 4391
Winters, C. A., 1010
Wisden, W., 1040, 1063, 4151
Wolf, A. P., 3773
Wolfgang, W. J., 705
Wollmann, R. L., 2177
Wong, M., 3217
Wood, M. R., 2948
Woodward, W. R., 142, 4688
Woody, C. D., 549, 560
Woolf, C. J., 3999
Woolley, C. S., 2549, 3642
Wu, C.-F., 644
Wu, R.-L., 2235
Wu, S. H., 3084
Wu, W.-l., 3935
Wurtz, R. H., 2478

X

Xie, W.-J., 3392

Y

Yamada, A., 729
Yamada, Y., 3920
Yamamoto, H., 3241
Yamane, S., 408
Yang, W., 962
Yang, X.-C., 268
Yasuda, K., 3920
Yasumura, D., 3554
Yau, K.-W., 3248
Yip, R. K., 4898
Yool, A. J., 2838
Yoshida, A., 1094
Yoshida, K., 2849
Yoshioka, T., 2785
Young, W. S., III, 2288
Yu, D. W., 3773
Yusoof, S., 3494
Yuzaki, M., 4253

Z

Zafra, F., 4793
Zaremba, A., 2532
Zhang, H., 3107
Zhang, L., 3494, 4510
Zhong, C., 2362
Zhong, Y., 644
Zhou, S., 2130, 2144
Zhu, Q.-S., 4437
Zigmond, R. E., 3717
Zinn, K., 895
Ziskind-Conhaim, L., 3935
Zola-Morgan, S., 2582
Zsuppan, F., 3509
Zucker, R. S., 4327
Zufall, F., 2523
Zuker, C. S., 3862
Zürcher-Neely, H. A., 2177
Zurn, A., 4195
Zwiebel, L. J., 2735
Zwimpfer, T. J., 1144

Subject Index

A

A2B5 immunoreactivity, 2751
Abundance, 1977
Accessory abducens nucleus, 4403
Accessory olfactory bulb, 1275
Accommodation, 188
Acetylcholine, 278, 793, 800, 1394, 1640, 3591, 4701
Acetylcholine receptors, 35, 1602, 2982, 4611
Acetylcholinesterase, 467, 4766
A channel, 989
Achromatopsia, 4056
Acidic protein, 2144
AC motility, 1906
Acoustic chiasm, 4530
ACPD (1-aminocyclopentane-1, 3-dicarboxylic acid), 2251
Actin, 77, 4800
Actin polymerization, 750
Action potential, 454, 1789, 2007, 2268
Activity-dependent competition, 1847
Activity-dependent gene expression, 4677
Activity-dependent staining, 363
A-current, 1781, 2235
Adamantanes, 4427
Addiction, 2165
Adenosine, 1363, 4358
Adenosine receptor, 3753, 4540
Adenylate cyclase, 3979
Adenylyl cyclase, 915, 1839, 3350
Adhesion, 4143
Adhesion molecules, 895, 2034, 2597
Adrenal gland, 1101, 3642
Adrenergic differentiation, 171
β-adrenergic receptor kinase, 4045
β-adrenergic receptors, 506, 781
α^1-adrenergic receptor subtypes, 3869
Adult, 249, 1538
Adult neuroplasticity, 2532
Adult plasticity, 153
Afferent influence, 4642
Afferent segregation, 2672
Aging, 1936, 3399
Agrin, 2982, 3535
AIDS, 970
AII amacrine cells, 4911
Ala-Pro-Gly-Trp-amide, 1709
Alcohol, 2439
Alpha, 2888
Alpha subunits, 2888
Alternative RNA splicing, 3535
Alternative splicing, 1370, 2356
Aluminum, 1763
Alzheimer's disease, 345, 376, 1679, 4391, 4766
Amacrine cells, 1394, 1736
Amantadine, 4427
Amidation, 222
Amiloride, 1789
Amino acid, 425, 773. *See also* Excitatory amino acid
Aminocyclopentane-1, 4358
D-2-amino-5-phosphonopentanoate (D-AP5), 21
4-aminopyridine (4-AP), 104, 989, 2819
Amino terminal, 4905
Amnesia, 2582, 3765. *See also* Retrograde amnesia
AMPA, 595, 1010, 3025, 3651
AMPA receptor, 4080
Amphetamines, 2609
Amphibian studies, 2268, 3010
Amygdala, 854, 2313, 2493, 2881, 3628, 3920, 4112, 4501
Amyloid, 4143
Amyloid precursor protein, 1679
Analgesia, 4854
Anatomy, 2403, 2785
Androgen, 4447
Anesthesia, 3582
Animal model of cerebral ischemia, 2582
Anisometropia, 188
Anoxia, 3765
Anterior cingulate gyrus, 3628
Anterograde tracing, 62
Antibodies, 1602, 3372, 4611
Antidromic activation, 1
Antigen-antibody complex, 750
Anti-nerve growth factor treatment, 1454, 1467
Antinociception, 4023
Anxiety, 854
Apamin, 297
APGWamide, 1709
Apical dendrites, 1382
Aplysia studies, 989, 1160, 1616, 2120, 2633, 2813, 2960, 3545, 3838, 4800
Apparent motion, 2247
Arachidonic acid, 1363
Arbor development, 1212
Arcuate nucleus, 2745
Area 17, 1262, 1319
Area 18, 1816, 4521
Area V4, 4056
Arm movement, 1435
Arousal, 4701
Arterial pressure, 3582
Aspartate, 425, 883, 3025, 3651, 3665, 3789, 4298
Associative learning, 1280, 1301
Associative processing, 924
Astrocytes, 56, 142, 330, 345, 664, 781, 1001, 1363, 1781, 2751, 3098, 3828, 3968, 4737, 4816, 4923
Astroglia, 619, 2648
Atrial natriuretic factor, 3071
AtT20 cells, 2007
Attention deficit hyperactivity disorder, 2865
Audition, 2819, 3700
Auditory cortex, 3688, 4501
Auditory decussation, 4530
Auditory localization, 3473, 3485
Auditory neocortex, 4701
Auditory nerve, 962
Auditory pathways, 1698
Auditory system, 962, 1001, 2493, 3291, 4501
Auditory telencephalon neurophysiology, 4309
Auditory thalamus, 3200
Autonomic centers, 3582
Autoradiography, 762, 3781, 4766
Autoreceptor, 4372
Avian studies, 1548, 4309
Axogenesis, 1859
Axo-glial endings, 4783
Axon, 430, 2993, 3956
Axonal arborization, 3494
Axonal receptors, 2803
Axonal regeneration, 1467
Axonal retraction, 1135
Axonal transport, 4634
Axon branching, 1212
Axon elimination, 1212
Axon growth, 4800
Axon guidance, 1548, 3525
Axon morphology, 39
Axon outgrowth, 467, 3107
Axon remodeling, 39
Axon segregation, 1847
Axon targeting, 1212
Axon–target interactions, 619
Axon terminals, 781
Axotomy, 518, 3717, 4011, 4800

B

Baboon studies, 3773
Baclofen, 4358
BAPTA, 525
Barium, 297
Barium current, 2065
Barn owl, 4381
Barrel cortex, 153, 319
Barrels, 62, 3509, 3946
Basal forebrain, 4766
Basal ganglia, 1658, 3729, 4460
Basic fibroblast growth factor, 3241, 3554, 3828, 3968
Basket neurons, 4663
Basolateral amygdala, 4066
Behavior, 3380, 4037, 4595
Behavioral analysis, 729
BEN glycoprotein, 1548
Benzamil, 430
Benzodiazepine receptor, 1040, 1063, 4151
Bepridil, 430
Bergmann glia, 1010, 1063
Bicuculline, 3935
Binaural beats, 4381
Binaural interaction, 3688, 4530
Binaural processing, 3084
Binaural time difference, 3688
Binding sites, 1668
Binocular convergence, 1319
Binocular deprivation, 570
Binocular interactions, 188
Binocular vision, 2478, 4721
Binomial, 2370
Biocytin, 1319, 1502, 2785
Biological clock, 2648
Biological oscillators, 3619
Biology of depression, 3628
Birdsong studies, 2464, 2532, 4309
Blood vessels, 1169
Blue cone, 1233
Bovine studies, 3248
Brain, 440, 1688, 3350
Brain cells, 2735
Brain-derived neurotrophic factor, 306, 4391, 4793
Brain development, 3445, 3456
Brain dialysis, 4372
Brain injury, 345, 872
Brain lesions, 2198, 4391
Brain microdialysis, 21
Brain Na channels, 268
Brain slices, 570, 1964, 2015, 2417, 2433, 2464, 4202
Brainstem, 2251, 3162, 3525, 4188
Brain studies, 538, 1370
Brain temperature, 2715

Brain transplantation, 3098
Branched spines, 2685
Branch emission and retraction, 3257
4-bromo A23187, 3175
Bromodeoxyuridine, 249
Bulbospinal sympathoexcitatory neurons, 1
Burstfiring, 3804
Bursting, 319
Bursting cells, 319
Butyric acid, 793

C

C1 adrenergic neurons, 1
C1 potentials, 3935
CA 1 area, 180, 607, 2582, 3753, 4510
CA 3 area, 1928
Ca^{++}-activated K+ current, 800
Ca^{++} block, 810
Ca^{2+}-ATPase, 489
Ca^{2+} detection, 2120
Ca^{2+} mobilization, 2120
Cadherin, 818, 3525
Caenorhabditis elegans studies, 2356
Calbindin, 235
Calbindin-immunoreactive processes, 674
Calcitonin gene-related peptide (CGRP), 518, 1135
Calcium, 56, 96, 180, 376, 430, 1490, 1567, 1882, 2973, 3226, 4202, 4327, 4793, 4834
Calcium-activated potassium channels, 297
Calcium binding protein, 674, 718, 4088
Calcium buffers, 297
Calcium channels, 607, 906, 2993, 3372, 3392, 4358
Calcium conductances, 2838
Calcium current, 1789, 1917, 2065, 2665, 4347
Calcium-dependent cell–cell adhesion, 3525
Calcium homeostasis, 1558, 2156
Calcium imaging, 4427
Calcium influx, 2268, 3665
Calcium mobilization, 4253
Calcium permeability, 4080
Calcium storage organelle, 1490
Callosal neurons, 1382
Calmodulin, 1567, 3350, 4793
Calmodulin-dependent phosphodieterase (CAM-PDE), 915
CA_1 neuron, 3217
Calpain, 2130, 2144
Calpastatin, 2144
Calsequestrin, 489
cAMP, 290, 506, 644, 915, 2165, 2433, 2439, 2573, 3071, 3248, 3743, 3869, 3979, 4045, 4540, 4793
Cancer borealis studies, 2706, 2803
Canine studies, 1640
Capillary, 1169
Capsaicin, 1716
Capsaicin-induced sensitization, 883
Carbocyanine dyes, 3946
Carbon dioxide, 86
Cardiac muscle, 1370
Cardiac myocytes, 268
Cardioactive neuropeptides, 1033
Cardiovascular, 2251
Cardiovascular neurons, 1
Catecholamine, 781
Catfish studies, 2156
Cat studies, 204, 278, 338, 549, 560, 570, 1262, 1280, 1301, 1816, 2403, 2672, 2901, 4521, 4721
Caudate nucleus, 4595
Caudoputamen, 674, 2609
cDNA, 2144, 3010
cell, 1262
Cell adhesion, 818, 2597, 3107, 4677
Cell–cell interactions, 2393
Cell culture, 376, 762, 793, 1253, 1523, 1726, 2960, 4264, 4347
Cell death, 1896, 2726, 4586, 4642
Cell fate, 249
Cell lineage, 1351, 1538
Cell migration, 736, 3098
Cell polarity, 762
Cell specificity, 4437
Cell stress, 3004
Cell-surface proteoglycan, 2597
Cellular localization, 1977
Central autonomic regulation, 3920
Central gray, 1640
Central nervous system, 116, 222, 330, 430, 467, 705, 1101, 1144, 1538, 1709, 2034, 2370, 2393, 3828, 4890
Central oxytocin/vasopressin release, 1024
Central pattern generator, 525
Cephalopod, 1490
c-erbA, 2288
Cerebellar cortex, 736
Cerebellum, 257, 538, 619, 1010, 1063, 1144, 1548, 3956, 4151, 4253, 4403, 4663, 4712
Cerebral blood flow, 2542
Cerebral cortex, 56, 1435, 1826, 2211, 3509
Cerebral dominance, 2918
Cervicothalamic tract terminals, 204
c-*fos*, 1716, 2516, 2973, 3582, 3729, 4112
Channel modulation, 1964
Channel rundown, 1964
Channels, 3042
Characterized sites, 1816
Charybdotoxin, 297
Chemosensory transduction, 1127
Chemotaxis, 1253
Chick studies, 489, 800, 818, 906, 962, 1001, 1115, 1698, 1917, 2726, 3107, 3525, 3781, 4642
Chimera, 3321
Chimeric mice, 4712
Chloramphenicol acetyltransferase, 4468
Chlorethylchlonidine, 3869
Cholecystokinin, 1233, 3380, 4264, 4854
Cholera toxin, 235
Choline acetyltransferase (ChAT), 171, 793, 1628, 1936, 3272, 4195
Cholinergic axons, 2849
Cholinergic cells, 1936
Cholinergic differentiation, 171
Cholinergic inhibition, 800
Cholinergic neurons, 1628
Cholinergic systems, 4766
Cholinesterase, 4143
Choline uptake, 793
Choroid plexus, 1094, 4775
Chromosomes, 2555, 2865, 3535
Chronic depolarization, 1726
CIE color space, 408
Ciliary ganglion, 1115
Ciliary neurotrophic factor, 3241
Cingulate cortex, 924, 4112
Circadian rhythm, 2015, 2516, 2648, 3321, 3619
Circuit development, 976
c-*kit* receptor, 4663
Classical conditioning, 4112, 4403, 4501
Claustrum, 4112
Climbing fibers, 1548, 4712
Clonal analysis, 330, 4565
Clustered connections, 2785
Cnidaria, 2065
Coactivity, 1280
Cobalt, 4816
Cocaine, 2165, 2439, 2609, 4112, 4372
Cochlea, 1575, 1587, 4575
Cochlear hair cells, 800
Coefficient of variation, 3753
Coexistence, 864, 3380
Cognitive map, 1945
Colchicine, 4642
Collagen, 2849
Collateral sprouting, 1454
Colliculi, 1040
Coloboma, 2865
Color vision, 408, 1233, 4056
Commissure, 3700, 4530
Compartments, 607, 2079
Competition, 2051, 2960
Complex cells, 3568
Computer simulation, 607, 1772, 2268, 2403
Conditioning, 4624
Conditioning lesion, 3554
Cone bipolar cells, 4911
Confocal microscopy, 976, 2735, 4023
Λ-conotoxin, 906, 3372, 3392
Ω-conotoxin GVIA, 1789, 4347
Contrast sensitivity, 2198, 4521
Convergence, 1502
Coordinate systems, 1435
Corpus striatum, 3773
Cortex, 39, 1040, 3042, 3054, 3700, 3920, 4151, 4834
Cortical afferents, 1194
Cortical circuitry, 3676
Cortical development, 1194
Cortical efferents, 1194
Cortical layers, 1826
Cortical networks, 4545
Cortical neurons, 4427
Corticoster one, 3642
Corticotectal neurons, 1382
Corticotropin-releasing factor, 2303, 2313
Crab studies, 810, 2706, 2803
Cranial nerves, 3525
Crayfish studies, 4327
Critical period, 1896
Crustacean studies, 2803
Cryo-ultra thin section, 2186
Cultured cells, 2186, 3545
Cultured neurons, 1964, 2065
Current source density, 2211
Cutaneous pathway, 1647
Cycad extract neurotoxicity, 1523
Cyclic AMP, see cAMP
Cyclic GMP, 3071
Cyclic nucleotides, 1253, 3979
Cytochrome oxidase, 62, 4545
Cytokines, 1094, 1101, 2665, 4793
Cytoskeleton, 77, 1763, 2186, 3175, 3399, 4783

D

D_1 agonists, 2875
Dark adaptation, 2451
Dark-induced hyperlocomotion, 3380
DC motility, 1906
D-current, 2235
Deafferentation, 4642
Degradation, 35
Delayed neurotoxicity, 1882
Delayed nonmatching to sample task, 2582
Delayed outward rectifier current, 3601
Delayed rectifier, 525, 1781

Deletion mutation, 2865
Dementia, 970
Demyelination, 1538, 2259, 3671
Dendrites, 762, 1382, 2321, 2403
Dendritic excitability, 607
Dendritic spine, 2549
Denervation, 116, 1115, 2875, 4677
Dense-cored vesicles, 1335
Dentate granule neurons, 2973
Dentate gyrus, 132, 1094, 1867, 3004, 3226
2-deoxyglucose, 2875, 4298
Deoxyglucose autoradiography, 153, 2875
Depression, 297, 1280, 1301, 3628, 4224
Desensitization, 595, 3042, 4045, 4253, 4540, 4905
Development, 39, 467, 705, 962, 1115, 1275, 1280, 1301, 1688, 1826, 2235, 2288, 2672, 2685, 2726, 2751, 2838, 2888, 3010, 3054, 3473, 3485, 3509, 3676, 3781, 4143, 4253, 4468
Dextran, 77
Diacylglycerol, 1567
Diagonal band, 345
Dialysis, 2623
3-dicarboxylic acid, 4358
Diencephalon, 3765
Differential expression, 1736
Differential growth, 3509
Differential imaging, 3115, 3139
Differential kinase assay, 1160
Differentiation, 3372, 4775
Diffusion, 77
Dihydropyridines, 906, 1789, 4347
Direction discrimination, 2331, 4521, 4745
Dishabituation, 1160, 2633
Disparity, 2478
Displaced ganglion cells, 3781
Distension, 1502
Distributed processing, 3877
Distribution, 222
Divalent cations, 3838
Dizocilpine, 970
DNA, 691, 705
Dog studies, 1640
Dopamine, 483, 864, 1335, 1658, 2000, 2165, 2433, 2609, 2623, 2875, 3380, 3392, 3773, 4224, 4264, 4281, 4372, 4911
Dorsal funiculus, 3525
Dorsal horn, 883, 3025
Dorsal raphe nucleus, 1086, 4037
Dorsal rhizotomy, 518
Dorsal root, 906, 3525
Dorsal root afferents, 3494
Dorsal root axons, 4783
Dorsal root ganglion, 518, 583, 1763, 1896, 2104, 4854
Double label, 3321
Drosophila studies, 390, 644, 705, 895, 1628, 2051, 2735, 3862
Drug addiction, 2439
Dynamic anisometropic stimulation, 188
Dynorphin, 132, 425

E

EEG, 4701
Efferent inhibition, 800
elav, 3321
Electrical activity, 96
Electrical coupling, 2960
Electrical properties, 2838
Electrical stimulation, 96, 3004, 3582
Electron microscopy, 257, 718, 781, 2735
Electrophysiology, 506, 1698, 1867, 2745, 4122, 4611
Electroretinogram, 390
Elevated potassium, 1726
Elimination, 2960
Embryogenesis, 895
Embryonic antigen, 872
Embryonic development, 4151
Embryonic motoneuron, 3935
Embryonic neurons, 2235
Endogenous opioids, 1024
Endoplasmic reticulum, 489, 1490
Endoprotease, 705
β-endorphin neurons, 2745
Endothelial cells, 3968
Energy, 4234
Energy metabolism, 773, 840
Enkephalin, 1335, 2079, 4281
Enteric nervous system, 235
Entorhinal cortex, 1867, 1945
Entrainment, 2516
Enzyme, 222
Enzyme immunoassay, 1275
Epidermal growth factor, 583, 1688, 4565
Epidermal growth factor receptor, 583, 2504
Epilepsy, 104, 872, 1928, 2211, 3004, 4846
Error elimination, 1212
Estradiol, 2549, 3869
β-estradiol, 3217
Estrogen, 2745, 3217
Estrous cycle, 2549
Evoked potential, 3688
Excitability mutants, 644
Excitatory amino acids, 104, 595, 773, 854, 883, 2156, 2973, 3665, 4188, 4427
Excitatory postsynaptic potential (EPSP), 319, 338, 607
Excitatory synapse, 635, 4347
Excitotoxicity, 1558, 2362, 4427
Excitotoxins, 425
Exocytosis, 363, 1335, 2186, 2948
Expectation, 4595
Experience, 3473, 3485
Experimental extinction, 854
Extracellular adenosine, 4540
Extracellular matrix, 2034, 2597, 3535
Extracellular space, 4243
Extrajunctional regions, 35
Extra-raphe serotoninergic nuclei, 440
Extrastriate, 2478, 2785
Extrastriate cortex, 2331
Eye movement, 1640

F

F1-20, 2130, 2144
F3/F11, 257
Fasciclin, 895
Fasciculation, 818, 3107, 3525
Fasciculus retroflexus, 3272
Fast-superfusion, 635
Fatty acylation, 4634
Fear, 854, 4501, 4624
Feedback, 1587
Feeding, 3609
Ferret studies, 3651
Fetal lesions, 62
Fetal visual system development, 1847
Fibroblast growth factor, 142, 1668, 2726, 4195, 4688
Fibroblasts, 2504, 2849
Fibronectin, 2034, 2597
Filopodia, 3175, 4800
Finch studies, 2464
Fish studies, 2381
Fish visual system development, 3257
Fixation task, 408
flg receptor, 3828
Flower-pot, 3282
flp-1 gene, 2356
FLRFamide, 2356
Fluorescence imaging, 4202
Fluorescence microscopy, 363
Fluorescent dye, 1616, 3187
Fluorescent fiber tracing, 3257
FluoroGold, 235
FMRFamide, 1033, 1616, 2356, 2633
FMRF-NH_2, 525
Food-aversive conditioning, 729
Forgetting rate, 3765
Formalin test, 3651, 3665
Form discrimination, 4056
Fos, 4489
Fourier transforms, 390
Fovea, 2381
Free radical, 1658
Freeze-fracture, 1490
Freeze substitution, 864
Frequency response, 1906
Frequency tuning, 1575
Frog studies, 297, 2982, 3291, 4243
Frontal cortex, 4624
Frontal eye field, 4460
Fura-2, 1558, 2156, 2251, 4202
Fusion protein, 2735

G

$GABA_A$ receptor, 924, 1040, 1063, 2451, 2888, 4151
$GABA_B$ receptor, 2745, 3466
GABAergic, 3804
GABA-induced local inactivation, 1816
GABA transporter, 2451
GABA uptake, 4545
β-galactosidase, 4890
Gamma amino butyric acid (GABA), 104, 356, 483, 664, 864, 906, 1394, 2000, 2370, 2623, 2901, 3042, 3466, 3773, 3935, 3985, 4037
Ganglion cell, 2381, 4737
Ganglion neurons, 906
GAP-43, 691, 3849, 3896, 3999
Gap junction, 4911
Gel filtration, 946
Gene, 2555
Gene dosage, 4337
Gene expression, 538, 1839, 3671, 4775
Gene induction, 1716, 2563
Gene regulation, 691, 1033, 1628
Gene structure, 3535
Genetic determinants of drug addiction, 2439
Geniculocortical afferents, 2672
Geniculocortical axons, 39
Genome organization, 691
Gerbil studies, 946
Germ-line transformants, 2735
Glia, 330, 664, 3098, 3321
Glial cells, 872, 1668, 4816
Glial fibrillary acidic protein (GFAP), 1001, 3671, 3968, 4737
Glial lineages, 330
Glial precursors, 2751
Glial scar, 3828, 4783
Gliogenesis, 3642
Gliosis, 1001
Globus pallidus, 3435, 4151
Glomeruli, 976
Glucose, 1558, 2015
Glutamate, 56, 204, 356, 425, 664, 883, 1363,

1640, 1882, 2156, 2251, 2555, 2648, 3025, 3084, 3651, 3665, 3789, 3985, 4037, 4188, 4298, 4834
Glutamate receptor, 773, 2043, 4080, 4816
Glutamaterigic transmission, 4234
Glycine, 3084, 3935
Glycine receptor, 116
Glycine receptor–associated protein, 116
Glycogen, 4923
Glycolysis, 840, 4234
Glycoprotein, 2177, 2393
GMP-gated channel, 3248
Goldfish studies, 116
Golgi epithelial cell, 736
Golgi neurons, 4663
Golgi stain, 3781
G proteins, 1275, 1839, 2043, 3862, 3992, 4358, 4510
Granule cells, 619, 1010, 1063, 3956
Granule neuron, 3601
Grasshopper studies, 895
Growth, 2381, 3509
Growth-associated proteins, 3849
Growth cones, 39, 467, 750, 1253, 1859, 2393, 2948, 4867
Growth factors, 171, 2022
GTP-binding proteins, 3435
Guanylyl cyclase, 3350
Guidance, 467
Guinea pig studies, 132, 235, 278, 1502, 1575, 1587, 1867, 1906, 2745, 3226
Gustation, 1127

H

Habenula, 3272, 3282, 4112
Habituation, 2303
Hair cells, 1575, 1587, 1906, 4575
Hamster studies, 1144, 2112, 2417, 2516, 3619
Hand compliance, 1750
Handedness, 2918
Hand nerves, 3445, 3456
H-DNA, 691
Helisoma studies, 3175, 4867
Heparin-binding domain, 2597
Heparin binding growth factor, 142, 4688
Heterogeneity, 4264
Heterologous expression, 26ь
Heteronuclear RNA, 652
High threshold, 2225
High threshold calcium current, 2838
High-voltage-activated, 2065
Hilar neurons, 4846
Hippocampus, 104, 132, 142, 180, 345, 506, 595, 607, 773, 1024, 1040, 1781, 1867, 1882, 1928, 1945, 2235, 2549, 2582, 2849, 3004, 3217, 3226, 3399, 3466, 3642, 3920, 4122, 4151, 4173, 4358, 4808, 4846
Hirudo medicinalis, 525
Histochemistry, 1094
HNK-1, 467, 2177
Hole board, 4808
Homeosis, 2051
Homocysteate, 3789
Homolog-scanning mutagenesis, 306
Horizontal cell, 2156, 2451
Horseradish peroxidase tracing, 62
HP channel, 2993
HSP72, 3004
5-HT receptors, 235, 440, 3838, 4775
Human, 1538, 2542, 2555, 3414
Human brain, 1977
Human cerebral cortex, 376
Human gene mapping, 3248
Human growth hormone reporter gene, 4437
Human MAO A and B genes, 4437
Human psychophysics, 2247
Hydrogen ions, 86
6-hydroxydopamine, 4281
Hydroxylase, 3392
5-hydroxytryptamine, 2000
Hyperactivity, 2865
Hyperalgesia, 86, 883, 1917, 3025, 3651, 3665
Hypergravity, 4489
Hyperlocomotion, 3380
Hypoglycemia, 4298
Hypothalamic-pituitary-adrenal axis, 1094
Hypothalamus, 946, 1040, 1351, 2288, 2313, 2648, 2745, 3869, 3920
Hypoxia, 56, 773

I

I_A, 525
I_K, 525
Ibotenate, 4358
Identified neuron, 1616, 2065
IGF binding protein, 4737
IGF-1 gene expression, 3849, 4737
IGF receptor, 4737
Immediate early gene, 2516, 2609, 2973, 3729
Immunocytochemistry, 116, 222, 915, 1233, 1736, 2186, 2745, 3399
Immunoelectron microscopy, 736, 864
Immunofluorescence microscopy, 4898
Immunoglobulin superfamily, 257
Immunogold, 3435
Immunohistochemistry, 204, 345, 1275, 2130, 3525, 3582, 3591, 4045
Immunoperoxidase, 3435
Impulse conditioning, 1454
Inactivation, 989, 2065
Indirect immunofluorescence, 718
Indoleamine, 1394
Inferior colliculus, 1212, 3200, 3700
Inferior olive, 4489
Inferior temporal cortex, 408
Inflammation, 86, 3651
Information processing, 1772
Infraorbital nerve, 3946
Inhibition, 116, 2370, 3042, 3466, 4545
Initiation of movement, 549, 560
Injury, 2504, 3554, 3828
Innervation, 35
Innervation dependence, 1602
Inositol, 489, 1567
Inositol phosphates, 1363, 1567
Inositol 1,3,4,5-tetrakisphosphate, 1567
Inositol trisphosphate, 1490, 2120
Inositol trisphosphate receptor, 4253
Inositol 1,4,5-trisphosphate receptor, 489
Inputs, 3676
Insect studies, 2523
In situ histochemical techniques, 1101
In situ hybridization, 222, 440, 538, 652, 736, 946, 1033, 1040, 1063, 1094, 2130, 2288, 2765, 2881, 2888, 2973, 3350, 3591, 3920, 4011, 4151, 4737
Insular cortex, 4624
Insulin-like growth factors, 1558
Integration, 2370
Integrin, 2034
Interaural phase difference, 4381
Interaural time delay, 3688
Interaural time difference, 4381
Interlaminar connections, 1319
Interleukin-1, 1094, 1101, 4737
Interleukins, 1668
Intermediate filament, 3010, 3968
Internal model, 1750
Interneuron, 1647, 3877, 4066
Interocular orientation disparity, 1301
Interpeduncular nucleus, 3272, 3282
Interphotoreceptor matrix, 4243
Interpositus nucleus, 4403
Intestinal reflexes, 1502
Intraaxonal injection, 2901
Intra-axonal recording, 2706
Intracellular calcium, 970, 2120, 4122
Intracellular labeling, 1
Intracellular recording, 1, 1262, 3217
Intrinsic connections, 1319
Intrinsic properties, 4264
In vitro experiments, 86, 818, 1698, 1977, 2015, 2813, 3187, 3609, 3700
Inward rectifier, 1781
Ion channel kinetics, 635
Ion channel mutants, 4080
Ion channels, 2043, 2259, 2665, 2993, 3291
Ionotropic EAA receptors, 4188
Ion selective microelectrode, 4243
IP3, 1567, 4510
IP4, 1567
IPSC, 4122
IPSP, 319, 4122
Ischemia, 56, 430, 773
Isoenzyme, 4437
Isolated brain *in vitro* preparation, 1867
Isolated growth cone, 4867
Isoproterenol, 506
ITD-sensitivity, 3200

J

Jellyfish studies, 2065

K

Kainate, 595, 1010, 2156, 4080
Kainic acid, 773, 4173, 4793, 4905
Kappa opiate receptors, 132
Karnic acid, 872
KCl depolarization, 3175
72 KDa heat shock protein, 3004
41 KD protein, 1602
Kex-2, 705
Kinase translocation, 1160
Kindling, 872, 1928, 2211
Kit-ligand (KL), 4663
Korsakoff's syndrome, 3765
Kv4, 2007
Kynurenic acid, 4530

L

L1 glycoprotein, 818, 3107
La afferant, 338
lacZ reporter gene, 1628
Laminin, 818
Lateral cervical nucleus, 204
Lateral geniculate, 278
Lateral lemniscus, 3688
Lateral septum, 4112
Lateral superior olive, 3084
Layer IV, 1319
Learned motor performance, 549, 560
Learning, 854, 4624, 4701
Lectins, 2393
Leech studies, 525, 3877
Lesions, 4403, 4624
Leukemia, 3427

Leukemia inhibitory factor, 3427
Levator ani muscle, 4447
L-glutamate, 635
Lidocaine, 2104
Ligation neuroma, 4783
Light damage, 3554
Light touch, 1511
Limax flavus studies, 729
Limb geometry, 1750
Limbic system, 2493
Lipid-soluble tracers, 3494
Lobster studies, 3979
Local circuits, 570
Local interneurones, 1477
Local protein synthesis, 4867
Locomotion, 1477, 3619
Locust studies, 1477, 2370
Long-term memory, 729, 3765
Long-term potentiation, 21, 180, 506, 607, 854, 3226, 4202
Low threshold calcium current, 2838
Low-threshold spike, 3804
L-type, 2225
Lucifer yellow labeling, 4066
Lurcher mutant, 4712
Lymnaea studies, 1033, 1709, 2993
Lymphokines, 1668

M

Macaca fascicularis, 718
Macromolecules, 77
Macrophages, 3968
Magnesium, 2015, 2993
Maintenance, 4688
Male behavior, 1709
Mammalian studies, 39, 268, 430, 1802, 3535, 4427, 4911
Manduca sexta studies, 2523
MAO-A, 1977
MAO-B, 1977
Mapping, 2555, 2865
Masking, 4381
Mauthner cell, 116
Mechanoreceptors, 827
Mechanosensory information, 1477, 3291
Medial geniculate body, 2493, 3200, 4501
Medial lemmiscus, 4088
Medial septal nucleus, 1936
Medial septum, 345
Medial superior temporal area, 2478
Medial temporal lobe, 3765
Medulla, 3525
Medulla oblongata, 3361
Melanotrope cell activity, 864
Memantine, 4427
Membrane biogenesis, 2948
Membrane capacitance, 290
Membrane currents, 2120
Membrane receptor, 3956
Membranes, 2393
Memory, 729, 854, 1936, 2542, 2582, 3765, 4224, 4624, 4701, 4846
Memory mutants, 644
Mesencephalon, 1409, 3392
Mesoaccumbens, 4264
Mesocorticolimbic, 4264
Mesolimbic, 3380
Messenger RNA, 1101, 1688
Metabolism, 773, 1169, 3372, 3509
Metabotropic glutamate receptors, 4224
Methoxatin, 2362
Microdialysis, 425
Micro-exon splicing, 895
Microfluorimetry, 1882
Microglia, 3968
Microiontophoresis, 4037
Microneurography, 827
Microphysiometry, 773
Microstimulation, 2331
Microtubule, 4800
Microtubule-associated protein, 1802, 3399
Microtubule organizing center, 750
Microvilli, 1490
Midbrain, 1640
Midbrain DA neuron, 2433
Mink, 290
Mitochondria, 3789
Mitogenesis, 142, 4688
Mitral cell, 1063
Mobilization, 2633
Modeling, 2403, 2685, 3568
Modulation, 278, 290, 525, 2633, 3545, 3838
Mollusk studies, 729, 1709
Monkey studies, 188, 408, 718, 883, 1169, 1233, 1416, 1435, 1936, 2331, 2478, 2582, 2715, 2785, 2901, 2918, 3025, 3139, 3445, 3414, 3456, 3568, 4056, 4460, 4545, 4595, 4854
Monoclonal antibodies, 2022, 3525
Monocular deprivation, 4651
Monte Carlo simulation, 2370
Morphine, 1024, 1511, 2623
Morphogenesis, 467, 930, 1382, 3781
Morphology, 1763, 4066
Morphometry, 1936
Mosaic, 3321
Mossy fibers, 619
Motion, 2247, 2331, 2478, 4521
Motion blindness, 2198
Motion perception, 2198, 4745
Motion sickness, 4489
Motivation, 4595
Motoneuron, 2051, 2403, 3849
Motoneurons ciliary ganglion, 2726
Motor axon terminals, 644
Motor control, 549, 560, 1750, 2542, 2706
Motor cortex, 2918
Motor end plate, 3999
Motor learning, 2918
Motor neuron, 1502, 2065, 3241, 4133
Motor neuron dendrites, 3494
Motor programs, 3187
Motor unit, 4447
Mouse studies, 35, 153, 249, 257, 319, 454, 595, 619, 736, 793, 976, 1101, 1363, 1658, 1688, 1896, 2144, 2235, 2865, 3084, 4337, 4712, 4808, 4890
MPP^+, 1658
MPTP, 1658
mRNA, 222, 895, 1040, 1063, 1763, 2888, 3361, 3828, 4151, 4867
MT, 2331, 4745
Müller cells, 3968
Multipotent progenitor, 4565
Muscarinic receptor, 3591, 4510, 4701
Mutations, 390
Myelin, 1538, 2259, 3671, 4890
Myelinated axons, 2259, 3310
Myelinated nociceptors, 2901
Myelination, 4890
Myenteric neurons, 1726
Myenteric plexus, 235, 1502
$MyoD_1$, 930
Myogenesis rat studies, 930
Myotendinous junction, 1602

N

N. reticularis pontis caudalis, 1640
N. reticularis pontis oralis, 1640
Narcolepsy, 1640
N-Cadherin, 4677
Neocortex, 319
Neonatal/postnatal primate, 3445, 3456
Neostriatum, 652, 3435
Nerve autograft, 3310
Nerve growth factor (NGF), 306, 345, 518, 705, 930, 1253, 1454, 1467, 2007, 2573, 4011, 4391, 4611, 4651, 4766, 4793
Nerve growth factor receptor, 345, 2504, 3399, 3671, 4011
Nerve growth factor stimulation, 750
Nerve injury, 3445, 3456
Nerve-muscle cultures, 2982
Nerve processes, 77
Nerve regeneration, 3310
Network modeling, 3877
Neural activity, 644, 1001
Neural cell adhesion molecule (NCAM), 872, 930, 4677
Neural circuits involved in depression, 3628
Neural coding, 3414
Neural crest, 3818
Neural development, 674, 895, 4586
Neural differentiation, 691
Neural graft, 3098
Neural network, 1435, 3568
Neural plasticity, 644, 3445, 3456, 4281
Neural transplantation, 3272, 3282, 3619
Neurile outgrowth, 818
Neurite, 77
Neurite growth, 736
Neurite growth inhibitors, 2112
Neurite outgrowth, 96, 306, 619, 2034, 2597
Neurite polarity, 1802
Neurites, 2993
Neurobiology, 773
Neurobiotin, 2819, 3700, 4023, 4911
Neuroblastoma, 171, 3372
Neurodegeneration, 56, 1679, 4923
Neuroendocrine control, 3920
Neurofibrillary tangles, 376
Neurofilaments, 1763, 1802, 2165, 2439, 3010, 3399
Neurogenesis, 705, 2532, 3642, 3781, 3896
Neuroglia, 1001
Neuromodulation, 810, 1086, 4195
Neuromuscular development, 2051
Neuromuscular junction, 35, 363, 454, 1602, 1859, 2982, 3241, 3849, 3999, 4327, 4447, 4898
Neuromuscular system, 4677
Neuron, 116, 2813, 4264
Neuronal calcium channels, 2225
Neuronal cell adhesion, 257
Neuronal cell cultures, 1409
Neuronal competition, 4586
Neuronal death, 376, 1558
Neuronal differentiation, 2268, 2573, 3896
Neuronal facilitation and integration, 4309
Neuronal growth cone, 3175
Neuronal immunoreactivity, 915
Neuronal nicotinic ACh receptor, 1115
Neuronal plasticity, 872, 1280, 1301, 2973
Neuronal regeneration, 2504
Neuronal specific gene, 2144
Neuronal survival, 306, 4688
Neuronotrophic factors, 583
Neuron response properties, 3676
Neurons, 1523, 3828
Neuron survival, 583, 3427
Neuropeptide, 222, 810, 1033, 1233, 1409, 1709, 2356, 3361, 3380, 3591, 3717, 3818, 4281

Neuropeptide Y, 864, 1086, 3004
Neurophysiological function, 840
Neurophysiology, 3414
Neuroplasticity, 3717
Neuroprotection, 970, 2362
Neurotensin, 2433, 4264
Neurotensin gene transcription, 652
Neurotensin primary transcripts, 652
Neurotensin receptors, 1409
Neurotoxicity, 1523, 1679
Neurotransmitter, 171, 204, 840, 1127, 2156, 3773, 3789, 4045
Neurotransmitter phenotype, 3818
Neurotransmitter plasticity, 1135, 4195
Neurotransmitter release, 297
Neurotrophic factor, 142, 171, 1896, 3427, 3554, 4651, 4688
Neurotrophin, 306, 4793
Nicotine, 2765, 4611
Nicotine binding, 2765
Nicotinic receptor, 800, 2765, 4540
Nifedipine, 2065
Nimodipine, 2225
Nimodipine-resistant N-type calcium current, 2225
Nipecotic acid, 2451, 4545
N-methyl-D-aspartate (NMDA), 21, 56, 180, 376, 635, 854, 883, 970, 1882, 1928, 2156, 2362, 2417, 2464, 2672, 2973, 3084, 3226, 3651, 3700, 3729, 4188, 4298, 4834, 4905
Nociception, 883, 1454, 1467, 1716, 2563, 3025, 4854, 4878
Node of Ranvier, 3241
Nonlinearity, 1906
Nonlinear summation, 4309
Non-NMDA, 3084, 4188
Nonselective cation channels, 800
Noradrenaline, 1086, 2321, 3162, 4923
Norepinephrine, 278, 506, 781, 906, 3985, 3992
Noxious heat, 1511
Nuclear import, 2813
Nuclear protein, 390
Nucleic acid hybridization, 1688
Nucleus accumbens, 2079, 2609, 3380, 3609, 4112, 4372, 4595
Nucleus basalis, 4701
Nucleus laminaris, 1698
Nucleus magnocellularis, 962, 1698
Nucleus mesencephalicus laterale pars dorsalis, 4381
Nucleus paragigantocellularis, 3162
Nucleus prepositus hypoglossi, 3162
Nucleus of the solitary tract, 3920
Nucleus tractus solitarius, 1024, 2251

O

O-2A progenitor, 4816
Ocactivity, 1301
Ocular dominance, 1301, 3115
Oculomotor, 4460
Odor-dependent ion channels, 2523
Odors, 1772
α-OH-DHP, 3217
Olfaction, 915, 1275, 3979
Olfactory bulb, 976, 1063, 1772, 1964, 2043, 3896, 3985, 3992
Olfactory cortex, 2211
Olfactory neurons, 915, 3896
Olfactory transduction, 2523
Oligodendrocytes, 1538, 2112, 2751, 3098, 4890
Oligonucleotide probes, 1040
Oncogene, 2007
ON/OFF convergence, 1319
ON/OFF-pathways, 2247
Opiate, 1335, 2165, 2439, 4854
Opiate receptors, 132
Opioid, 356, 425, 483, 3162
Opioid peptides, 1335, 3818, 4023
Opioid receptors, 356, 2745
Opsin, 2022
Optical techniques, 3115, 3139
Optic fibers, 4642
Optic lobes, 2735
Optic nerve, 430, 4816
Optic tectum, 4642
Optomotor response, 390
Organ of Corti, 1906
Organotypic slice cultures, 3054
Organotypic tissue culture, 4298
Orientation selectivity, 1280, 1816, 3115, 3139
Orientation-specific inhibition, 1816
Oscillation, 525, 4834
Outside-out patch, 635
Owl studies, 3473, 3485, 4381
Oxidative metabolism, 4234
Oxygen consumption, 840
Oxygen-derived free radicals, 2362

P

P75^{NGFR}, 930
Pacemaker, 3321
Pain, 86, 3651, 3665, 4088
Palmitoylation, 4634
Pancreatic polypeptide, 3361
Parabrachial area, 2563
Parabrachial nucleus, 3582
Parallel processing, 2198
Paralysis, 3849
Paraventricular nucleus of the thalamus, 4112
Parkinson's disease, 4224, 4391
Paroxysmal depolarizing shift (PDS), 3700
Patch clamp, 664, 2251, 2523, 3979
Pathfinding, 1859, 3054
Pattern formation, 3946
Pattern recognition, 1416, 3139
Patterns of unit activity, 549, 560
Pavlovian conditioned response, 549, 560
PC-12 cells, 750, 2177, 2573, 4611
P-element mediated transformation, 1628
Pentamidine, 970
Peptide, 864, 976, 1709, 3380, 3545
Peptide synthesis, 2881
Peptide YY, 1086, 3361
Peptidylglycine, 222
Peptidylglycine α-amidating monooxygenase, 222
Periaqueductal gray, 4489
Peripheral nervous system, 2034, 2177, 3399
Peripheral organs, 1977
Perirhinal cortex, 4624
Peroxidase-antiperoxidase technique, 718
Per protein, 2735
pH, 86, 773
Pharmacology, 1977
Phenobarbital, 4173
Phenotype determination, 1351
Pheromone-binding protein, 2523
Phorbol ester, 3601
Phosphatase 2A, 3743
Phosphodiesterase, 3979
Phosphoinositude turnover, 915, 4253
Phosphoprotein, 2130, 2144
Phosphorylation, 2165, 3071, 3743
Photopigment, 3862
Photoreceptor, 2022, 3248, 2735, 3554
Phototransduction, 840, 1490, 3862
Phylogeny, 538
Physiology, 4264
Pigment epithelium, 4243
Pioneer axons, 1194
Piriform cortex, 4112
Pituitary gland, 1101, 1688
PKC gamma-redistribution, 4808
Place cell, 1945
Planar bilayers, 2948
Plasticity, 180, 1144, 1928, 2211, 2321, 3473, 3485, 4701
Po, 2504
Polarized sorting, 257
Polymerase chain reaction, 705, 1370
Polymeric tube, 3310
Polyorchis penicillatus studies, 2065
Polyribosomes, 762, 4867
Polysialic acid, 872, 3107
Polysynaptic, 3838
Pons, 1640
Positron emission tomography, 2542, 3628, 3773
Postembedding immunocytochemistry, 2901
Posterior hypothalamus, 2715
Posterior pituitary lobe, 946
Posterior thalamic group, 3200
Postnatal axonal growth, 2112
Postnatal development, 4151, 4663, 4721
Postsynaptic density, 2685
Postsynaptic membrane, 454
Postsynaptic potentials, 2417, 2464
Posttetanic potentiation, 4327
Posttranslational processing, 222, 268
Potassium buffering, 1781
Potassium channel, 290, 538, 989, 1964, 2007
Potassium conductance, 2819
Potassium currents, 989, 2268, 3979
Potassium dependence after hyperpolarization, 506
Potentiated startle, 4624
Potentiation, 506, 1280, 1301
Precursor protein processing, 705
Prefrontal cortex, 2321, 3628, 4624
Prenatal competition, 62
Preoptic area, 946, 2715, 3869
Preplate, 1194
Preprodynorphin, 1716
Presynaptic calcium transient, 297
Presynaptic excitation, 2706
Presynaptic facilitation, 1160
Presynaptic inhibition, 132, 356, 1086, 1616, 2706
Presynaptic mechanisms, 2901, 4347
Presynaptic receptors, 2000, 2043, 3985, 3992
Primary afferents, 86, 827, 2901
Primary culture, 330, 2523
Primate studies, 1169, 1233, 1435, 1936, 2785, 2918
Procedural learning, 2542
Process elimination, 1382
Processing enzymes, 222
Proctolin, 810
Progesterone, 290
Projection neurons, 1382
Proliferation, 3968, 4565
Proliferation kinetics, 249
Promoter, 691, 4437
Propagation mechanisms, 104
Prostaglandins, 1917, 2715
Protease, 4143
Protease inhibitors, 2948
Protein, 116

Protein kinase, 2433, 4510
Protein kinase C, 1567, 4510, 4808
Protein synthesis, 762, 1726, 4775, 4923
Proteoglycan, 2034
Proto-oncogene, 4878
Pseudosubstrate peptides, 1160
Psychophysics, 2331, 3414, 4745
Pulsatory growth cone advancement, 3257
Purkinje cell, 489, 1063, 4712, 4737
Purkinje neuron, 2838, 3601, 4663
Putamen, 4595
Pyknotic cell, 3642
Pyramidal cells, 2549, 2582, 3466, 4066
Pyramidal neurons, 1382, 2785
Pyrroloquinoline quinone, 2362

Q

Quail-chick chimeras, 1548
Quantal analysis, 2370
Quantal release, 3753
Quantitation, 2685
Quantitative autoradiography, 2765
Quantitative enzyme radioautography, 1977
Quantitative morphology, 2403
Quick-freeze deep-etching, 2186
Quinoproteins, 2362
Quisqualate, 2156, 4358

R

Rabbit studies, 664, 840, 1394, 1896, 2225, 3098, 3200, 4234, 4854
Radial glia, 674, 4737
Radioautography, 1409
Rana pipiens study, 363, 2982
Raphe magnus, 4023
Raphe nuclei, 440, 1094
Ras, 2007
Rate dependency, 4372
Rat studies, 1, 21, 56, 62, 86, 96, 104, 142, 180, 268, 330, 345, 356, 425, 440, 483, 489, 506, 518, 538, 607, 635, 652, 674, 691, 818, 854, 872, 915, 970, 1010, 1024, 1040, 1063, 1086, 1094, 1135, 1194, 1212, 1275, 1335, 1370, 1382, 1454, 1467, 1511, 1558, 1602, 1668, 1716, 1726, 1736, 1763, 1781, 1789, 1826, 1882, 1928, 1964, 1977, 2000, 2022, 2043, 2079, 2104, 2130, 2165, 2211, 2288, 2303, 2313, 2321, 2362, 2433, 2493, 2504, 2549, 2563, 2609, 2623, 2648, 2665, 2685, 2751, 2819, 2838, 2849, 2875, 2881, 2888, 2948, 2973, 3004, 3042, 3054, 3071, 3162, 3217, 3272, 3282, 3310, 3350, 3361, 3380, 3392, 3399, 3435, 3466, 3494, 3509, 3535, 3554, 3582, 3591, 3601, 3609, 3642, 3665, 3671, 3676, 3688, 3700, 4151, 4188, 4358, 4391, 4447, 4468, 4489, 4530, 4854, 4878, 4898
Reactive astrocytes, 872
Receptive fields, 1416, 2493
Receptor, 2555, 3042, 3427, 4854
Receptor autoradiography, 440
Receptor binding, 1679, 3427
Receptor potentials, 1575, 1587
Receptor regulation, 1115
Receptor subtypes, 1040, 3380
Recovery, 2321
Rectification, 4080
Recurrent inhibition, 718
Red nucleus, 3187
Redox modulation, 2362
Reflex, 3877
Reflex modulation, 1647
Regeneration, 2112, 2960, 3999, 4783
Regional cerebral glucose utilization, 2875
Regulation, 1351
Release, 1394, 1668, 4372
REM sleep, 1640, 3282
Renshaw cells, 718
Repeated administration, 4372
Representation, 4595
Reproductive behavior, 390
Reticular, 1640
Retina, 664, 840, 1169, 1394, 1736, 2156, 2381, 2451, 3968, 4234, 4243, 4911
Retinal degeneration, 3554
Retinal ganglion cell, 1144, 4427
Retinal pigmented epithelial cells, 3968
Retinocollicular projection, 1212
Retinogeniculate development, 1847
Retinoic acid, 1802
Retinotectal projection, 2112
Retinotopic order, 3257
Retrograde amnesia, 729
Retrograde axonal transport, 2813
Retrograde tracing, 4545
Retrograde transport, 3162, 3427
Retrohippocampal, 1945
Retrorubral field, 2079
Retrovirus, 249
Reward mechanisms, 483
Rhesus monkey, 2715
Rhodopsin, 3862
Rhythm, 2516
Rhythmic feedback, 2706
RNA, 390, 762
RNA processing, 1010, 1033
RNA splicing, 1033, 2144
RNA synthesis, 1726
Robust nucleus of the archistriatum, 2417, 2464
Rod-signal pathway, 4911
Rostral ventrolateral medulla, 1
Rough endoplasmic reticulum, 4867
Roughness, 3414
Ryanodine, 489
Ryanodine receptor, 489

S

Safety margin, 4447
Salamander studies, 1772, 2451
Saxitoxin, 2104, 2948
Scene segmentation, 3139
Schizophrenia, 924
Schwann cell, 2177, 2504, 3310, 3999
Schwann cell membrane glycoprotein, 2177
Sciatic nerve, 3310
Scorpion neurotoxin, 454
Second messenger, 4045
Secretin-glucagon family, 3717
Segmentation, 467
Seizures, 3004, 4846
Selective reinnervation, 1144
Selective reversible inhibitors, 1977
Selective vulnerability, 3004, 4846
Selectivity, 2065
Sensitization, 1160, 2303, 2633, 3609, 4372
Sensorimotor information processing, 549, 560
Sensorimotor integration, 3877
Sensory adaptation, 3291
Sensory cortex, 3676
Sensory nerves, 86, 1454
Sensory neurons, 906, 1789, 1896, 1917, 2633, 3427, 4011
Sensory pathways, 4878
Sensory processing, 1575, 1587
Sensory stimulation, 153
Sensory transduction, 3291
Septal cholinergic, 4391
Septum, 793, 1024, 2881, 3399
Serial electron microscopy, 2685
Series sampling, 2685
Serotonin, 1086, 1127, 2633, 2803, 4037, 4775
Sex behavior, 4133
Sex difference, 1688, 4133
Sex orientation, 4133
Sexual arousal, 3609
Shaker, 2007
Shiverer mouse, 2259
Short-term memory, 729
Short-term potentiation, 180
Shunting inhibition, 1262
Signal peptide, 2813
Signal transduction, 1839, 2120
Silicon microphysiometry, 773
Simulation, 2685
Single channels, 4427
Single unit activity, 1511
Single unit recording, 62, 408
Siphon sensory neuron, 1616
Skeletal muscle, 454, 1370
Skeletal myocytes, 4540
Skin, 1896
Sleep, 3282
Sleep-wake state, 2715, 4037
Small cardioactive peptide, 2633, 3545, 3838
Snail studies, 3175
SNAP-25, 2865, 4634
S-neurons, 1502
Sodium, 4327
Sodium-activated, 1964
Sodium/calcium exchange, 4327, 4898
Sodium channels, 1370, 2104, 2259, 2948, 3743
Sodium transport, 840
Somatic hybridization, 3392
Somatic sensory cortex, 3509
Somatic sensory tract, 3525
Somatodendritic release, 2623
Somatosensory, 204, 319, 827, 3946
Somatosensory cortex, 3445, 3456, 4088
Somatostatin, 946, 2582
Somatostatin precursor, 946
Songbird studies, 2532, 4133
Song control nuclei, 2417, 2464
Sound localization, 1698, 2819, 3084, 3200, 4530
Space coding, 3473, 3485
Spaliotemporal patterns, 930
Sparing, 2321
Spatial, 1945
Spatial frequency, 1416
Spatial learning, 21, 2321, 4808
Spatial vision, 2198, 3568
Spike broadening, 2633
Spike duration–independent process, 2633
Spike initiation, 2803
Spinal cord, 883, 1716, 2313, 2403, 2563, 2751, 3025, 3494, 3525
Spinal inhibition, 3935
Spinal motoneuron, 338
Spinal nerve, 3525
Spinal transection, 4878
Spine apparatus, 2685
Spinothalamic, 4088
Spiny stellate cells, 1319
Splicing, 895
S100 protein, 4337
Sprouting, 345, 962, 2112, 3241
Squid studies, 1490
Startle, 854, 2303, 2313, 4624

State-specific antibodies, 3071
Steel-locus, 4663
Stellate cell, 864
Stellate neurons, 4663
Stem cell, 4565
Stereology, 2685
Steroid, 4133
Stomatogastric ganglion, 810, 2803
Stretch reflex, 1750
Striatal neurons, 3591
Striate cortex, 1262, 1319, 3115, 3139, 3568
Striatonigral, 3729
Striatopallidal, 3729
Striatum, 356, 1363, 2079, 2493, 4112, 4224, 4281, 4460, 4565, 4766
Striosome, 674, 3729
Stroke, 430
Strychnine, 3935
Subcellular fractionation, 2393
Subependyma, 249
Submaxillary gland, 1688
Subretinal space, 4243
Substance abuse, 4112
Substance P, 235, 1135, 1917, 2563, 3272, 4905
Substantia gelatinosa, 2901
Substantia nigra, 1040, 2000, 2079, 2875, 3435, 4391
Substrate, 2130
Subsynaptic protein, 1602
Sulfhydryl, 2362
Sulforhodamine, 3187
Superficial layers, 924
Superior cervical ganglion, 96, 2665, 3717
Superior colliculus, 3473, 3485
Superior olivary complex, 2819
Super protein, 4634
Supplementary eye field, 4460
Supplementary motor area, 4460
Supporting cells, 1575, 1587
Suprachiasmatic nucleus, 2015, 2516, 3619
Supraoptic nucleus, 1024
Swimming, 1647
Sympathetic neurons, 96, 2665, 4195
Sympathoadrenal lineage, 3818
Synapse, 762, 781, 1127, 1144, 1233, 1736, 1859, 2549, 3466, 3753, 3789, 3838, 4447, 4651, 4712, 4898
Synapsin, 77, 1736
Synaptic differentiation, 1602
Synaptic disuse, 338
Synaptic effectiveness, 4447
Synaptic efficacy, 338
Synaptic inhibition, 1262
Synaptic plasticity, 338, 506, 1826, 2633, 3226
Synaptic potentials, 356, 483, 2000
Synaptic protein, 2130, 2144, 4634
Synaptic recognition, 257
Synaptic responses, 4066
Synaptic transmission, 180, 363, 1477, 2043, 2633, 2672, 3217, 3985, 3992, 4224
Synaptic vesicle, 3789
Synaptogenesis, 1115, 1548, 1847, 2051, 2982, 3935
Synaptosomes, 3435
Synchrony, 4834

T

Tachykinin, 3717
Tactile, 827
Target regulation, 1135
Targets, 3676
Target selection, 39
Taste buds, 1127
Taste receptor cells, 1127
Tau, 376
T-current, 3804
Teleost fish studies, 2381
Tellurium, 3671
Temporal lobe, 2211, 4846
Temporal lobe epilepsy, 1867
Temporal order detection, 2247
Tenascin, 736
Teratocarcinoma, 1802
Terminal arbor formation, 3257
Terminal differentiation, 1802
Testosterone, 2881
Tetrodotoxin, 338, 430, 2015, 2104, 4642
Texas red, 4023
Texture, 1416, 3414
Thalamic neurons, 4347
Thalamo-amygdala, 4501
Thalamocortical, 319, 1194, 4501
Thalamus, 39, 204, 1040, 3054, 3804, 4088, 4151
Theoretical model, 1435, 4586
Thyroid hormone receptors, 2288
Tissue culture, 583, 2022, 2532, 3985, 3992
Tissue distribution, 1977
Tissue specificity, 4437, 4468
Toad studies, 864
Tolerance, 2765, 4372
Tomography, 2542
Tonotopic organization, 962
Touch, 827
Tracer coupling, 4911
Tracts, 467
Tract tracing, 3525
Trans-ACPD, 3651
Transcription, 691, 4437
Transcriptional regulation, 2573
Transduction, 3979
Transferrin, 4775
Transforming growth factor, 583, 1688, 4793
Transgenic mice, 1658, 4337, 4468
Transient potassium currents, 2235
Transient synapses, 1847
Translation-dependent protein synthesis, 4867
Transmitter release, 132, 1917, 3545
Transneuronal degeneration, 4642
Transplant, 3399
Transynaptic regulation, 3717, 3818, 4468
Trapezoid body, 3084
Trauma, 4846
Tree shrew studies, 1319
TRH, 2288
Trigeminal complex, 153
Trigeminal ganglion, 1135
Trigeminal nerve, 3525
Trigeminal nuclei, 3946
Trigeminal primary, 62
Trigeminal primary afferent neurons, 62
Trigeminal tract, 3946
Trk proto-oncogene, 4011
Trophic factor, 4775
Trophic interaction, 4586
Trophism, 3896
Trypsin, 4143
TTX sensitivity, 268
Tubulin-α 1, 3849
Tumor necrosis factor, 2665
Turtle studies, 3187
Twitch tonic fibers, 4677
Typical and atypical neuroleptics, 652
Tyrosine, 3392
Tyrosine hydroxylase, 171, 1335, 1351, 1409, 2439, 4195, 4468
Tyrosine kinase, 3956

U

Ultradian rhythm, 2648
Ultrastructural autoradiography, 454
Ultrastructure, 1233, 2685, 2901, 3435
Unanesthetized rabbit, 3200
Unconditioned response, 4403
Unsaturated fatty acid, 3601
Urethane, 3582
Urinary bladder, 4878

V

Vaccinia virus, 268, 705
Vagus nerve, 3525
Vasoactive intestinal peptide, 4923
Vasopressin, 2881
Ventral striatum, 4595
Ventral tegmental area, 483, 1335, 2000, 2079, 2165, 2623, 3380, 3609, 4264
Ventricular zone, 2532
Ventromedial medulla, 1511
Venules, 1094
Veratridine, 3717
Vertebrate studies, 4586
Vesicle recycling, 363
Vestibular, 3291, 4489
VGF gene, 2573
Vibrassae, 1826
Videomicroscopy, 3257
Vimentin, 3968
Viscero-somatic convergence, 4878
Vision, 2247, 2331, 2478, 3862
Visual cortex, 570, 781, 1262, 1280, 1301, 1416, 2331, 2672, 2785, 4056, 4521, 4624, 4651, 4721, 4745
Visual cortical plasticity, 4651
Visual perception, 2331
Visual system, 39, 1212, 3054
Visuo-motor transformations, 1435
Vital fluorescent dyes, 976
Vital imaging, 976
Voltage-activated K^+ currents, 1781, 4510
Voltage clamp, 800, 989, 1906, 2065, 3804
Voltage-dependent block, 2225
Voltage-dependent sodium channel, 454
Voltage-gated calcium currents, 1726
Voltage sensitive dyes, 3115
Volume transmission, 781

W

Water maze, 21
Whisker follicle, 153
Whole cell, 2065
Whole-cell patch clamp, 664, 1789
Whole-cell patch recording, 1262
Whole-cell voltage clamp, 4122
Willardiines, 595
W-locus, 4663

X

Xenopus studies, 77, 290, 864, 1253, 1351, 1647, 2268, 2982, 3010, 4080, 4898

Z

Z-disc, 1602
Z-DNA, 691
Zebra finch studies, 2417, 2464, 2532, 4309
Zebrafish studies, 467, 1859, 3257
Zinc, 1523